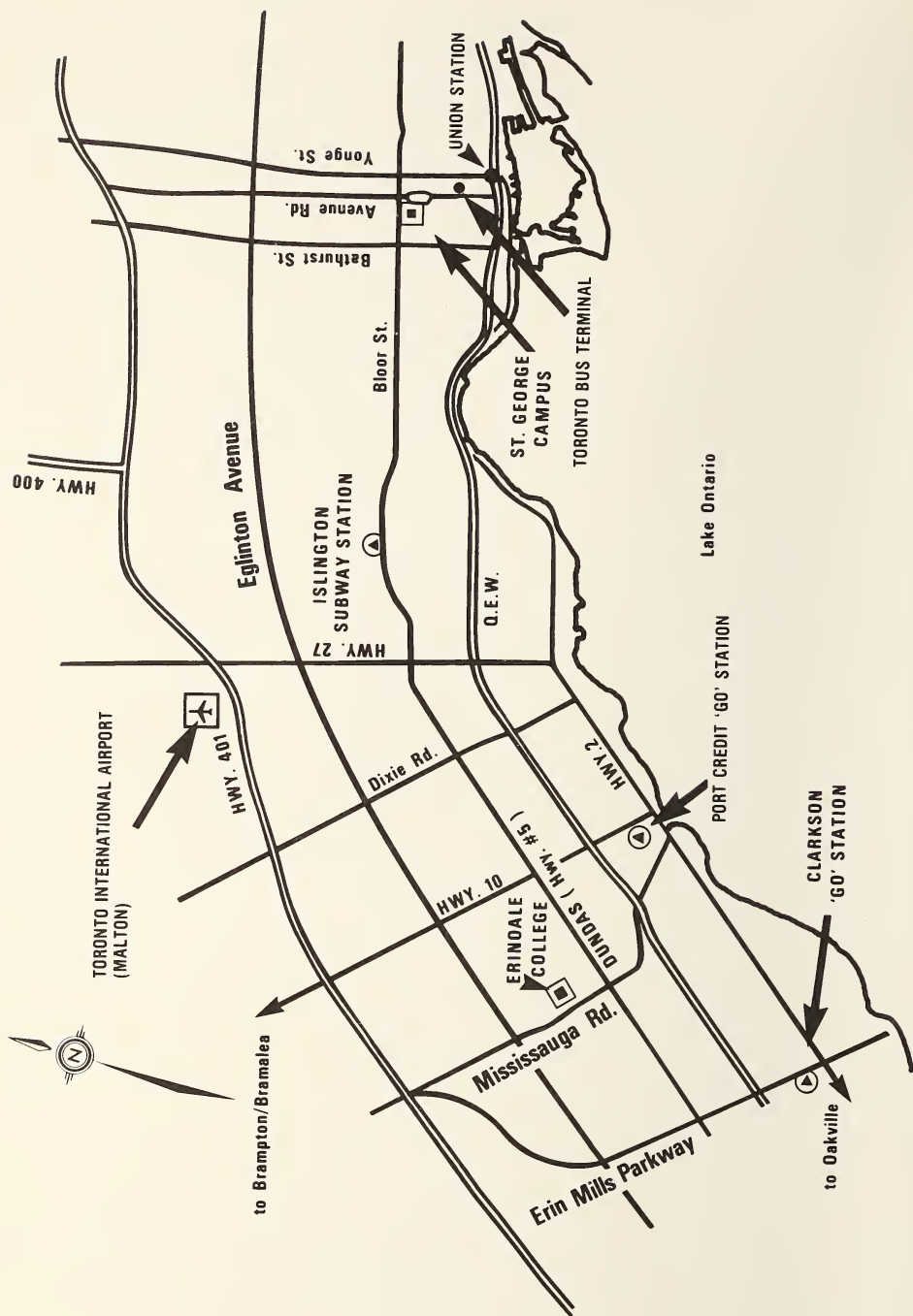


Faculty of Arts and Science

A collage of various items associated with the University of Toronto. It includes a blue zip-up jacket with the university crest, a white t-shirt with a large 'U' logo, a red and black striped shirt, and a green shirt. There are several books, including one titled 'Discovering Psychology' and another 'Readings in Urban Economics'. A blue folder or book cover also features the university crest. Numerous small circular and shield-shaped logos are scattered throughout. A white pennant with 'TORONTO' written on it is visible. The background is dark and textured.



See inside back cover for Campus map.

Erindale College

University of Toronto

1978-1979



On January 8, 1975, the College of Arms granted to Erindale College its coat of arms in the following heraldic terms.

"Vert a Chevron barry wavy Argent and Azure a Bordure embattled Or And for the Crest On a Wreath Or and Vert Issuing from the battlements of a Tower proper rising from Water barry wavy Azure and Argent an Oak Tree fructed Or leaved proper, as the same are in the margin hereof more plainly depicted. And by the authority aforesaid We do further grant and assign the following Device or Badge that is to say a Roundel Vert thereon a Pile throughout Or overall a Fess wavy Azure charged with a like Barrulet Argent."

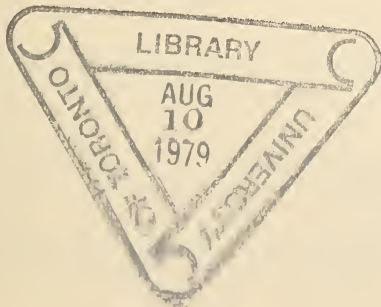
Green and gold, the colours of Erindale predominate in the coat of arms representing the natural beauty of the campus. The oak tree comes from the University of Toronto coat of arms with its motto, *Velut arbor aevo*, "May the tree thrive". The wavy blue and silver bars in the chevron signify the location of the College at a major bend in the Credit River and the motto, *Tantum Nobis Creditum*, "So much has been entrusted to us" is a word play on the name of the river.

Erindale College, one of the eight Colleges that constitute the Faculty of Arts and Science in the University of Toronto, opened in September 1967, as a suburban campus of the University of Toronto. The College offers the Arts and Science Programme of the University of Toronto and students may qualify for the University of Toronto Bachelor of Arts or Bachelor of Science degree in either a three or four year programme. A Bachelor of Commerce degree is also offered. The admission regulations are those of the University of Toronto.

Erindale College is located twenty miles west of downtown Toronto in the City of Mississauga. It may be reached by taking the Queen Elizabeth Highway, or Highway 5, or the Macdonald Cartier Freeway (401) to Mississauga Road. (See the map in front of Calendar.)

Anyone wishing information about the College should address: The Registrar, Erindale College, University of Toronto, Mississauga Road, Mississauga, Ontario, L5L 1C6.

The telephone number for information about full-time studies is 416-828-5399 and for part-time studies is 416-828-5244.



Important Notices

- 1) Students are reminded that they have primary responsibility for making certain that they and their programmes of study adhere to the various important dates, rules and regulations contained in this calendar. Students should always consult their Registrar if they have any questions about these regulations.
- 2) **Curriculum**
At the time of printing, the courses of instruction described in this calendar are those intended to be offered at Erindale College in the academic year of 1979-80. However, it may happen that some courses may require to be changed in content or to be withdrawn. In such cases, the University and the Faculty of Arts and Science will make every effort to provide equivalent alternative instruction, but the provision of such instruction cannot be guaranteed.
- 3) **Limitation of Enrolment in Courses**
The Faculty of Arts and Science reserves the right to limit the number of registrants in any course of instruction described in this calendar in circumstances where the number of qualified applicants for a course exceeds the teaching and other resources available to the Faculty.
- 4) **Academic and Other Fees**
The University reserves the right to alter the fees and other charges described in this calendar.
- 5) The words "man" and "he" appearing in this calendar are used in the generic sense.
- 6) Students who have problems of an academic or personal nature should consult their Registrar.
- 7) This calendar provides detailed information for courses of instruction offered on the Erindale campus only. Two other Arts and Science calendars are published by the University of Toronto, one for the St. George campus and the other for the Scarborough campus.

Cover designed by Vincent J. Cira, 3rd Year Graphics, Sheridan College

Photography by Rino Noto, 2nd Year Photography, Sheridan College

Printing by The University of Toronto Press

Edited by the Office of the Registrar

Related Publications

The academic information contained in this Calendar is supplemented by other detailed information contained in the following publications which are available at the College Registrar's offices.

Calendar Supplement

The College publishes two supplements to this Calendar, one in the Spring and the other in September just before the Winter Session begins. These supplements contain details of timetabling, room allocations, and registration instructions.

Students are reminded to consult both editions in conjunction with this Calendar in choosing their courses and to check carefully the instructions for enrolling in those courses on which departments have placed some restrictions.

Summer Session 1979

This publication contains details of courses offered in the Summer Session and is available in March.

Student Handbook - "Welcome to University of Toronto"

This publication is prepared by the Office of Internal Affairs. It provides information on non-academic services and facilities available to students, including health services, residence accommodation, financial assistance, athletic facilities, counselling services and student organizations.

The information in the aforementioned booklet is designed mainly for the St. George Campus. Information on non-academic services, specific to Erindale will be found in this calendar in the section entitled, "Resources".

The Erindale College Awards Bulletin

This publication provides information on Government financial assistance, scholarships, medals, prizes and bursaries. A copy may be obtained from the Student Aid Office, Room 211, North Building, or the Registrar's Offices in both the North and South Buildings.

A First Look

Published by the Office of Admissions, this booklet contains complete information on application procedures to all parts of the University including the Faculty of Arts and Science and all its colleges including Erindale. It also provides details of admission requirements.

Undergraduate Admissions Bulletin

Also published by the Office of Admissions, this gives admission information for persons applying from outside the province of Ontario, and those applying as non-matriculants.

Academic Year

The academic year is divided into a Summer and a Winter Session, and each session is divided into two terms. The dates for the Sessions and their terms are:

Summer Session 1979

First Term: Monday, May 14, 1979 - Thursday, June 28, 1979.

Second Term: Tuesday, July 3, 1979 - Friday, August 7, 1979

Winter Session 1979-80

First Term: Monday, September 10, 1979 - Friday, December 21, 1979

Second Term: Monday, January 7, 1980 - Friday, May 9, 1980

CALENDAR

1979

January	February	March	April
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5 6	1 2 3	1 2 3	1 2 3 4 5 6 7
7 8 9 10 11 12 13	4 5 6 7 8 9 10	4 5 6 7 8 9 10	8 9 10 11 12 13 14
14 15 16 17 18 19 20	11 12 13 14 15 16 17	11 12 13 14 15 16 17	15 16 17 18 19 20 21
21 22 23 24 25 26 27	18 19 20 21 22 23 24	18 19 20 21 22 23 24	22 23 24 25 26 27 28
28 29 30 31	25 26 27 28	25 26 27 28 29 30 31	29 30
May	June	July	August
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5	1 2	1 2 3 4 5 6 7	1 2 3 4
6 7 8 9 10 11 12	3 4 5 6 7 8 9	8 9 10 11 12 13 14	5 6 7 8 9 10 11
13 14 15 16 17 18 19	10 11 12 13 14 15 16	15 16 17 18 19 20 21	12 13 14 15 16 17 18
20 21 22 23 24 25 26	17 18 19 20 21 22 23	22 23 24 25 26 27 28	19 20 21 22 23 24 25
27 28 29 30 31	24 25 26 27 28 29 30	29 30 31	26 27 28 29 30 31
September	October	November	December
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1	1 2 3 4 5 6	1 2 3	1
2 3 4 5 6 7 8	7 8 9 10 11 12 13	4 5 6 7 8 9 10	2 3 4 5 6 7 8
9 10 11 12 13 14 15	14 15 16 17 18 19 20	11 12 13 14 15 16 17	9 10 11 12 13 14 15
16 17 18 19 20 21 22	21 22 23 24 25 26 27	18 19 20 21 22 23 24	16 17 18 19 20 21 22
23 24 25 26 27 28 29	28 29 30 31	25 26 27 28 29 30	23 24 25 26 27 28 29
30			30 31

CALENDAR

1980

January	February	March	April
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5	1 2	1	1 2 3 4 5
6 7 8 9 10 11 12	3 4 5 6 7 8 9	2 3 4 5 6 7 8	6 7 8 9 10 11 12
13 14 15 16 17 18 19	10 11 12 13 14 15 16	9 10 11 12 13 14 15	13 14 15 16 17 18 19
20 21 22 23 24 25 26	17 18 19 20 21 22 23	16 17 18 19 20 21 22	20 21 22 23 24 25 26
27 28 29 30 31	24 25 26 27 28 29	23 24 25 26 27 28 29 30 31	27 28 29 30
May	June	July	August
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3	1 2 3 4 5 6 7	1 2 3 4 5	1 2
4 5 6 7 8 9 10	8 9 10 11 12 13 14	6 7 8 9 10 11 12	3 4 5 6 7 8 9
11 12 13 14 15 16 17	15 16 17 18 19 20 21	13 14 15 16 17 18 19	10 11 12 13 14 15 16
18 19 20 21 22 23 24	22 23 24 25 26 27 28	20 21 22 23 24 25 26	17 18 19 20 21 22 23
25 26 27 28 29 30 31	29 30	27 28 29 30 31	24 25 26 27 28 29 30 31
September	October	November	December
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5 6	1 2 3 4	1	1 2 3 4 5 6
7 8 9 10 11 12 13	5 6 7 8 9 10 11	2 3 4 5 6 7 8	7 8 9 10 11 12 13
14 15 16 17 18 19 20	12 13 14 15 16 17 18	9 10 11 12 13 14 15	14 15 16 17 18 19 20
21 22 23 24 25 26 27	19 20 21 22 23 24 25	16 17 18 19 20 21 22	21 22 23 24 25 26 27
28 29 30	26 27 28 29 30 31	23 24 25 26 27 28 29 30	28 29 30 31

1979

Sessional Dates

Applicable Session	Day	Date	Event
S	Fri.	March 30	Last date for new students to <i>apply for admission</i> in order to <i>enrol</i> in courses which begin in May of the Summer Session
S	Mon.	April 2	<i>Registration</i> for Summer Session and <i>enrolment</i> in Summer courses begin
S	Fri.	April 13	Good Friday - University closed
S	Fri.	May 11	Last date for <i>registration</i> in A, F, H, and Y courses in the Summer Session; after this date a late registration fee will be imposed
S	Mon.	May 14	First term of Summer Session begins. Classes begin in A, F, H and Y courses
S	Tues.	May 15	Last date for new students to <i>apply for admission</i> in order to <i>enrol</i> in courses which begin in July of the Summer Session
S	Fri.	May 18	Last date to <i>add</i> F, H and Y courses
S	Mon.	May 21	Victoria Day - University closed

1979

Sessional Dates

Applicable Session	Day	Date	Event
S	Fri.	June 8	Last date to <i>drop</i> A and F courses without academic penalty
W	Wed.	June 20	Spring Convocation for Erindale College
S	Fri.	June 22	First term of Summer Session ends Classes end in A and F courses; <i>all term work to be completed</i> by this date
S	Mon.-Thurs.	June 25-28	<i>Term and final examinations</i> Classes in H and Y courses <i>continue to meet</i>
S	Fri.	June 29	Last date for <i>registration</i> in B and S courses in the Summer Session
W			Last date to submit requests for College transfer for full time studies in the Winter Session
S	Mon.	July 2	Dominion Day - University closed
S	Tues.	July 3	Second term of Summer Session begins in B and S courses
S	Fri.	July 6	Last date to add B and S courses
S	Fri.	July 20	Last date to <i>drop</i> H and Y courses without academic penalty
S	Fri.	July 27	Last date to <i>drop</i> B and S courses without academic penalty
S	Mon.	August 6	Civic Holiday - University closed
S	Mon.	August 13	Classes end in B, H, S and Y courses; <i>all term work to be completed</i> by this date
S	Tues.-Fri.	August 14-17	Summer Session <i>examinations</i> in B, H, S and Y courses Last date for submission of petitions for aegrotat consideration.
	Mon.	September 3	Labour Day - University Closed
W	Tues.-Fri.	September 4-7	Registration week
W	Fri.	September 7	Last date for <i>registration</i> in the Winter Session; after this date, a late registration fee will be imposed
W	Mon.	September 10	First term of Winter Session begins in A, F, H and Y courses
W	Fri.	September 21	Last date to <i>add</i> A, F, H and Y courses
S	Fri.	September 28	Last date for students who expect to graduate at the Fall Convocation to notify their College Registrar
W	Mon.	October 8	Thanksgiving Day - University closed
W	Mon.	October 15	Meeting of the Erindale College Council
W	Fri.	November 2	Last date to <i>drop</i> A and F courses without academic penalty
W	Tues.	November 27	Meeting of the Erindale College Council
W	Fri.	December 7	First term of the Winter Session ends; <i>all term work</i> in A and F courses <i>to be completed</i> by this date
W	Mon.-Fri.	Dec. 10-21	<i>Examinations</i> for A and F courses Term tests for multi-sectioned H and Y courses may be held
W	Fri.	December 14	Last date for students in Study Elsewhere Programme to confirm their programmes
			Last date for submission of petitions for aegrotat consideration.
W	Fri.	December 21	Christmas Holidays begin. Last date for submission of petitions for aegrotat consideration.

1980

Sessional Dates

Applicable Session	Day	Date	Event
W	Mon.	January 7	Second term of Winter Session begins. Classes begin in B and S courses and resume in H and Y courses
W	Mon.	January 14	Nominations open for Erindale College Council
W	Tues.	January 15	Second term installment of fees due
W	Fri.	January 18	Last date to <i>add</i> B and S courses
W	Wed.	January 30	Nominations close for Erindale College Council
W	Fri.	February 15	Meeting of the Erindale College Council
			Last date to <i>drop</i> H and Y courses without academic penalty
			Last date to apply for the Study Elsewhere Programme
W	Fri.	February 22	Last date for students who <i>expect to graduate</i> at the Spring Convocation to notify their College Registrar
W	Mon.-Fri.	February 18-22	Reading week
W	Fri.	February 29	Last day to <i>drop</i> B and S courses without academic penalty
W	Mon.	March 17	Meeting of the Council of the Faculty
W	Thurs.	March 20	Meeting of Erindale College Council
S	Tues.	April 1	Last date for new students to <i>apply for admission</i> in order to enrol in courses which begin in May of the Summer Session
W	Fri.	April 4	Good Friday - University closed
W	Fri.	April 11	Classes end; all work in B, H, S and Y courses <i>to be completed by this date</i>
W	Mon.-Fri.	April 14-18	Study Week; no tests or examinations may be held in this period
W	Mon.-Fri.	April 21-May 9	Winter Session <i>examinations</i> for B, H, S and Y courses
W	Fri.	May 9	Last date for submission of petitions for aegrotat consideration
S	Mon.	May 12	First term begins. Classes begin in A, F, H and Y courses
W	Mon.	June 16	Spring Convocation for the Faculty of Arts and Science begins
S	Fri.	June 20	First term of Summer Session ends
			Classes end in A and F courses; all term work <i>to be completed by this date</i>
			Last date for <i>registration</i> in B and S courses in the Summer Session
W	Mon.	June 30	Last date for receipt of applications for College transfer for full-time studies in the Winter Session
S	Wed.	July 2	Second term of Summer Session begins
S	Tues.	August 12	Classes begin in B and S courses
			Summer Session ends. Classes end in B, H, S and Y courses;
			<i>all term work to be completed by this date</i>
S	Wed.-Fri.	August 13-15	Summer Session <i>examinations</i> in B, H, S and Y courses

Note: Course suffixes in this section refer to those which appear in the Calendar Supplement.

Administrative Staff

Officers of the University of Toronto

<i>Chancellor</i>	Very Rev. A.B.B. Moore, BA, BD, LLD, DD
<i>President</i>	J.M. Ham, BAsC, SM, ScD
<i>Special Assistant to the President</i>	J.H. Sword, BA, MA, LLD
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<i>Vice-Provost</i>	R.W. Missen, BSc, MSc, PhD
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<i>Vice-President, Campus & Community Affairs</i>	W.E. Alexander, BSP, MSc, PhD
<i>University Ombudsman</i>	E.A. McKee, MA
<i>Chief Librarian</i>	R. Blackburn, MA, BLS, MS, LLD
<i>Secretary of the Governing Council</i>	D.S. Claringbold
<i>Director of Admissions</i>	W. Kent, MA
<i>Director of Student Awards</i>	P.S. Phillips, BA, CA
<i>Director of Student Record Services</i>	J.C. Wilson, BAsC, MSc, PhD
<i>Warden of Hart House</i>	R.M.H. Alway, BA, MA, PhilM
<i>Coordinator of Campus Services</i>	H.L. Reimer, BA, BPaed
<i>Director of the Advisory Bureau</i>	D.J. McCulloch, BA, MD, DPsych, FRCP(C)
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<i>Director of Career Counselling and Placement Centre</i>	R. Frankle, BA
<i>Director of University Health Service</i>	G.E. Wodehouse, MC, MD, FRCP(C), MRCP
<i>Director of Housing Services</i>	S. Mason, BA
<i>Director of International Student Centre</i>	E. Paterson, BA

Officers of the Faculty of Arts and Science

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<i>Vice-Dean</i>	J. Spelt, MA, PhD
<i>Associate Dean</i>	R.E. Pugh, MA, PhD
<i>Associate Dean</i>	J.R. Webster, MA, PhD
<i>Assistant to the Dean</i>	R.A. Brott, BA
<i>Assistant Dean and Secretary</i>	W.D. Foulds, BA
<i>Associate Secretary</i>	R.B. Oglesby, CD, MA
<i>Assistant Secretary</i>	C.R.C. Dobell, BA
<i>Executive Assistant</i>	J.M. Mills, BA
<i>Director of Academic Records</i>	D. Keeling, MA
<i>Office Systems Coordinator</i>	C.A. Belford, BTh
<i>Information Systems Coordinator</i>	A.M. Lewis, BA

Officers of Erindale College

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<i>Vice-Principal, (Academic)</i>	D.P. Morton, MA, PhD
<i>Vice-Principal (Administration)</i>	R. Ross, MA, MBE
<i>Budget and Planning Officer</i>	R.S. Rawlings, BA
<i>Executive Assistant to the Principal</i>	L.E. Seppala
<i>Coordinator, Community and Secondary School Liaison</i>	T. Reid, BSc
<i>Librarian</i>	H.L. Smith, BA, BLS
<i>Division of Humanities</i>	
<i>Associate Dean</i>	D.P. Morton, MA, PhD
	R.W. Van Fossen, AM, PhD (from July 1, 1979)
<i>Assistant Registrar</i>	L.T. McCormick, BA, AM, PhD
<i>Division of Sciences</i>	
<i>Associate Dean</i>	B.I. Roots, BSc, PhD
<i>Assistant Registrar</i>	G.R. Watson, BSc, PhD
<i>Division of Social Sciences</i>	
<i>Associate Dean</i>	H.F. Andrews, BA, MSc, DPhil
<i>Associate Registrar</i>	M.H. Cooper, BA
<i>Division of Part-Time Studies</i>	
<i>Associate Dean</i>	D.P. Morton, MA, PhD
	R.W. Van Fossen, AM, PhD (from July 1, 1979)
<i>Assistant Registrar</i>	L.T. McCormick, BA, AM, PhD
<i>Physical Plant Services Manager</i>	A. Opalinski, BSc, PEng
<i>Student Aid Officer</i>	L. Webber
<i>Student Housing Director</i>	M.J. Lavelle, MA
<i>Athletics and Recreation</i>	
<i>Director</i>	R.M. Ryckman, BA, MEd, PhD
<i>Assistant Director</i>	G. Fitch, BPHE
<i>Health Service</i>	
<i>Coordinator</i>	V.I. Degutis, RegN
<i>Physicians</i>	E.G. Davies, BSc, PhmB, MD, CCFP(C)
	R.P. Davis, MB, ChB, DObstet, RCOG, CCFP(C)
	G.W. Tisdall, MD, DPsych, CRCP(C)
	P.D. Wardle, MD, MRCS, LRCPL
<i>Campus Services Manager</i>	M.A. Dow
<i>Technical Services</i>	
<i>Coordinator</i>	A.W. Boorman

Erindale College Faculty

(As of 1978-79)

*Denote Discipline Representative

Division of Humanities

Classics

- *R.L. Beck, *BA (Oxford), MA, PhD (Illinois)*
- T.G. Elliott, *BA (Toronto), PhD (Harvard)*
- R. Ross, *MBE, BA (St. Andrews), MA (Oxford)*
- C.I. Rubincam, *BA (Toronto), BA (Oxford), PhD (Harvard)*

English

- T.H. Adamowski, *BA (Delaware), MA, PhD (Indiana)*
- J. Astington, *BA (Leeds), MA (McMaster), PhD (Toronto)*
- *B. Corman, *AB, AM, PhD (Chicago)*
- V.A. DeLuca, *BA (Hamilton Coll), MA, PhD (Yale)*
- J. Dutka, *BA, MA (Alberta), ARCT (RCM, Toronto), PhD (Toronto)*
- D. Hill, *AB (Kenyon Coll), MA, PhD (Columbia)*
- D.I. Lancashire, *BA (Manitoba), MA, PhD (Toronto)*
- M.J. Levene, *BA (Manitoba), MA, PhD (Toronto)*
- M. Lynch, *BA (Goddard Coll), PhD (Iowa)*
- R.R. McLeod, *AB (Harvard), MA, PhD (Toronto)*
- M. Northey, *BA (Toronto), MA, PhD (York)*
- J. Skvorecky, *PhD (Charles Univ)*
- R. Sullivan, *BA (McGill), MA (Connecticut), PhD (Sussex)*
- R.W. Van Fossen, *AB, AM (Duke), PhD (Harvard)*

Fine Art

- L. Eleen, *BA, MA, PhD (Toronto)*
- T. Martone, *BA, MA (Boston), MA (Inst Fine Art, NY) PhD (NYU)*
- *M.J. McCarthy, *MA (Cambridge), PhD (London), FSA*
- B. Welsh, *BA, MPhil, (Toronto), PhD (Utrecht)*

French

- C. Cloutier-Wojciechowska, *LèsL (Laval), Ddel'U (Paris)*
- *M-P. Ducretet, *LPhL, AgrEMS (Lovanium), DPhL (Louvain)*
- J. Féral, *LèsL (Paris), MA (Ottawa), D IIIe C (Paris)*
- J. LeGall, *BA (Alberta), MA (Toronto)*
- J.C. Rault, *BA (Sir George Williams), MA, PhD (Toronto)*
- N.J. Swallow, *BA, MA, PhilM (Toronto)*
- D.A. Trott, *BA (UBC), MA, PhD (Toronto)*
- H.H. Weinberg, *BA (Roosevelt), MA (Northwestern), PhD (Michigan)*

German

- J. Bielert, *BA (Queen's), MA, PhD (Toronto)*
- D.B. Little, *BA (Western), MA, PhD (Wisconsin)*
- *C. Saas, *BA (Wisconsin), MA, PhD (Indiana)*

History

- S. Aster, *BA, MA (McGill), PhD (LSE, London)*
- M. Dafeo, *BA (Manitoba), MA (Queen's)*
- J.W. Goering, *BA (Kansas), MAR (Yale), MA, MSL, PhD (Toronto)*
- L. Grayson, *BA (York), MA, PhD (Toronto)*
- R.E. Johnson, *BA (Antioch), PhD (Cornell)*
- C. La Vigna, *BA (Skidmore), PhD (Rochester)*
- D.P. Morton, *BA (RMC), BA, MA (Oxford), PhD (London)*
- R.W. Pruessen, *BA (CUNY), MA, PhD (Pennsylvania)*
- D. Raby, *BA (Cambridge), PhD (Warwick)*
- M.S. Spigelman, *BA (Manitoba), PhD (Dalhousie)*
- R. Stein, *BA (UBC), MA (Sussex), PhD (York)*
- *W.B. White, *AB (Missouri), MS, PhD (Wisconsin)*

Italian

- L.T. McCormick, *BA (Toronto), AM, PhD (Rutgers)*
 L.M. Picchione, *BA, MA, PhD (Toronto)*
 *G. Pugliese, *BA, MA, PhD (Toronto)*
 R. Sinyor, *BA, MA (McGill)*
 A.C. Yu, *BA (Brock), MA (Toronto)*

Linguistics

- C. Yorio, *BA (U de Cordova, Argentina), MA (Syracuse), MA, PhD (Michigan)*

Music

- J.S.M. Mayo, *MA, PhD (Toronto)*

Philosophy

- N.C. Brett, *BA (New Hampshire), MA, PhD (Waterloo)*
 J.V. Canfield, *BA (G. Washington), MA, PhD (Brown)*
 C.E. Cassin, *BA, MA (Oxford), MA, PhD (Florida)*
 K. Henwood, *BA (Colorado), MA, PhD (Toronto)*
 W.J. Huggett, *BA, MA, PhD (Toronto)*
 J.F.M. Hunter, *BA, MA (Toronto), PhD (Edinburgh)*
 B. Katz, *BA (Manitoba), MA, PhD (Cornell)*
 G.P. Nagel, *BA, MA (SFU), PhD (Cambridge)*
 L.W. Sumner, *BA (Toronto), MA, PhD (Princeton)*
 *A.I. Urquhart, *BA (Edinburgh), MA, PhD (Pittsburgh)*

Religious Studies

- *L.J. Elmer, *BA, STB (Toronto), STD (St Thom Aquinas)*
 M.J. Lavelle, *BA (Windsor), MA (Marquette)*
 B.V. Matthews, *BA (Acadia), STB (Trinity), BA, MA (Oxford),
 PhD (McMaster)*
 L.E. Schmidt, *BA, MA, PhD (Toronto)*

Slavic Languages and Literature

- K.A. Lantz, *BA (Alberta), MA, PhD (Toronto)*
 *N.N. Shneidman, *MPHE (Minsk), MA, PhD (Toronto)*

Spanish

- M. Cohen, *DocFilRom (Madrid)*
 O. Hegyi, *PhD (Toronto)*
 *E.G. Neglia, *BA (Roosevelt), MA (Illinois), PhD (Washington Univ.)*
 J.R. Webster, *BA (Liverpool), MA (Nottingham), PhD (Toronto)*

Division of Sciences

Life Sciences

Botany

- J.F. Ammirati, *MA (San Francisco SU), PhD (Michigan)*
 P.W. Ball, *BSc (London), PhD (Leicester)*
 W.R. Cummins, *BSc (McMaster), PhD (Michigan State)*
 W.G. Fillion, *BA (Queen's), MSc (Guelph), PhD (UWO)*
 *P.A. Horgen, *BA (N Iowa), MSc (Iowa), PhD (SUNY)*
 P.F. Maycock, *BA (Queen's), MSc, PhD (Wisconsin)*
 S.K. Ng, *BSc, MSc, PhD (Manitoba)*
 J. Svoboda, *BS (UWO), PhD (Alberta)*
 G.R. Thaler, *MSc (McMaster), PhD (Toronto)*

Psychology

- R. Abramovitch, *BA (McGill), MA, PhD (Minnesota)*
 T.M. Alloway, *BA (Knox), MA, PhD (Northwestern)*
 K. Blankstein, *BA (McMaster), MA, PhD (Waterloo)*
 C.M. Corter, *BA (Davidson), PhD (UNC)*
 F.I.M. Craik, *BSc (Edinburgh), PhD (Liverpool)*
 A.S. Fleming, *BSc (Columbia), PhD (Rutgers)*
 G. Keren, *BA, MA (Hebrew U, Jerusalem), PhD (U Illinois)*
 *L. Krames, *BA, MA, PhD (Temple)*
 G. Logan, *BA, MSc (Alberta), PhD (McGill)*
 M. Moscovitch, *BSc (McGill), MA, PhD (Penn)*
 P. Pliner, *BS (Purdue), PhD (Columbia)*
 J. Polivy, *BS (Tufts), MA, PhD (Northwestern)*
 B. Schneider, *BA (Michigan), PhD (Harvard)*
 I.M. Spigel, *BA (New York), MA, PhD (Temple)*
 S.E. Trehub, *BCom, MA, PhD (McGill)*

Zoology

- T.M. Alloway, *BA (Knox), MA, PhD (Northwestern)*
 J.H. Booth, *BSc (Toronto)*
 N.C. Collins, *BA (Pomona), PhD (Georgia)*
 F.E. Dudek, *BSc, PhD (California)*
 D.L. Gibo, *BA (San Fern Vall State Coll), PhD (California)*
 A. Guha, *MSc, PhD (Calcutta)*
 R. Knoechel, *BSc (Cornell), PhD (McGill)*
 G.K. Morris, *BSA (Guelph), MSc, PhD (Cornell)*
 D. O'Day, *BSc, MSc (UBC), PhD (Delaware)*
 P.J. Pointing, *BScF, PhD (Toronto)*
 R.R. Reisz, *BSc, MSc, PhD (McGill)*
 B.I. Roots, *BSc, PhD (London)*
 *W.G. Sprules, *BSc (Queen's), MA, PhD (Princeton)*
 C.J. Whitcombe, *BSc (Queen's)*

Physical Sciences

Professor Emeritus, (Physics, Earth & Planetary Science)

- J.T. Wilson, *CC, OBE, BA (Toronto), MA (Cambridge), PhD (Princeton),
 ScD (Cambridge), DSc, DUniv, LLD, FRSC, FRS*

Astronomy

- J.B. Lester, *BA (Northwestern), MSc, PhD (Chicago)*
 *J.R. Percy, *Bsc, MA, PhD (Toronto)*

Chemistry

- J.M. Deckers, *LSc, DrSc (Louvain)*
 M. Moskovits, *BSc, PhD (Toronto)*
 G.A. Ozin, *BSc (London), DPhil (Oxford)*
 *A.J. Poë, *BA, BSc, MA (Oxford), PhD, DSc, DIC (London), MA (Cambridge)*
 J.C. Poë, *ARCS, MSc, DIC (London)*
 J.K. Reed, *BA (Queen's), MSc (UWO), PhD (Wisconsin)*
 E.A. Robinson, *BSc, PhD, DSc (London)*
 I.W.J. Still, *Bsc, PhD (Glasgow)*
 A. Vander Voet, *BSc, MSc (Alberta), PhD (Toronto)*
 M.A. Winnik, *BA (Yale), PhD (Columbia)*

Computer Science

- *G.S. Graham, *BSc, MSc (Toronto), MA (Princeton), PhD (Purdue)*
 E.C.R. Hehner, *BSc (Carleton), MSc, PhD (Toronto)*
 C. Rackoff, *BSc, MSc, PhD (MIT)*
 P. Sermer, *BSc, MSc, PhD (Toronto)*

Earth and Planetary Science

(Geology & Geophysics)

- D.H. Gorman, BSc (UNG), PhD (Toronto)
 H.C. Halls, BSc (Sheffield), MD (Durham), PhD (Toronto)
 M.M. Kimberley, BSc (UWO), PhD (Princeton)
 D.R. Kobluk, BSc, MSc (McGill), PhD (McMaster)
 G.W. Pearce, BSc, MSc (Memorial), PhD (Toronto)
 *P.-Y. Robin, MSc (Toronto), PhD (MIT)
 R.M. Stesky, MSc (Toronto), PhD (MIT)

Mathematics

- T. Bloom, BSc (McGill), MA, PhD (Princeton)
 P.H.H. Fantham, MA, DPhil (Oxford)
 I.R. Graham, BSc (Toronto), PhD (Princeton)
 V. Jurdjevic, BS (Penn State), MS, PhD (Case Western Reserve)
 W.D. Lakin, BS (MIT), MS, PhD (Chicago)
 *J.E. LeBel, BSc (McGill), MA, PhD (Toronto)
 R.A. Mathon, Dipl Ing (Prague), MSc, PhD (Toronto)
 F.D. Tall, AB (Harvard), PhD (Wisconsin)
 S. Tanny, BSc (McGill), PhD (MIT)
 S.M. Trott, BSc (US Naval Academy), BSc, PhD (Tasmania)
 W.A.R. Weiss, BSc (Saskatchewan), MSc, PhD (Toronto)

Physics

- R.F. Code, BSc (Toronto), AM, PhD (Harvard)
 D.J. Dunlop, MA, PhD (Toronto)
 R.M. Farquhar, BA, MA, PhD (Toronto) FRSC
 A.T. Georges, BSc (Washington), MSc, PhD (S. California)
 D.M. Harrison, BSc (American Univ), MSc (Pittsburg), PhD (Toronto)
 B. Hede, BSc, PhD (McMaster)
 G.I. Stegeman, BASc, MSc, PhD (Toronto)
 H.W. Taylor, BSc, MSc, PhD (Manitoba)
 H.M. Van Driel, BSc, MSc, PhD (Toronto)
 *S.S.M. Wong, BA (Int'l Christian Univ, Tokyo), MS (Purdue), PhD (Rochester)

Statistics

- G.A. Monette, BSc (UWO), MSc (Toronto)
 *K.W. Ng, BSc (Ch U of Hong Kong), MSc (Alberta), PhD (Toronto)

Survey Science

- J.D. Crane, BA (Manitoba), LLB (Osgoode), QC
 L.A. Gale, BA (Queen's), DTS
 *G. Gracie, BASc (Toronto), PhD (Illinois), PEng
 R.C. Gunn, BASc, MASc (Toronto), MSc (Ohio State), PEng
 D.W. Lambden, BSc (New Brunswick), OLS, DLS, FRICS
 L.N. Setterington, OLS
 P.A. Steeves, BSc, MSc (UNB), PEng
 H. Turner, BSc (London), MSc (McGill), PhD (Waterloo)

Division of Social Sciences

Anthropology

- C.S. Holzberg, BA (McGill), MA (Iowa), PhD (Boston)
 D. Lubell, AB, PhD (Columbia)
 *F.J. Melbye, BA (Washington), MA (SUNY), PhD (Toronto)
 A. Mohr, AB (California), PhD (Wisconsin)
 L.W. Reinhardt, BFA (Maryland Inst of Art), MA (Indiana),
 PhD (S Illinois)
 B.A. Sigmon, BA (N Carolina), MS, PhD (Wisconsin)
 R.M. Vanderburgh, BA (Radcliffe), MS (Northwestern)

Commerce

- J. Amernic, *BSc, MBA (Toronto), CA*
 M. Berkowitz, *BSc, MBA, PhD (SUNY)*
 *L.J. Brooks, *BCom, MBA (Toronto), CA*
 J. Dooley, *BASc, MASc, PhD (Toronto)*
 G.H. Haines, *SB (MIT), MS, PhD (Carnegie IT)*
 M.R. Longworth, *BA (Western), CA*
 D.B. Thornton, *BSc, MBA (Western), CA, PhD (York)*

Economics

- L. Chan, *BSc (PEI), MA, PhD (McMaster)*
 S. Eddie, *BSc (Minnesota), PhD (MIT)*
 J.E. Floyd, *BCom (Saskatchewan), MA, PhD (Chicago)*
 M.A. Fuss, *BSc, MA (Toronto), PhD (Calif)*
 M.J. Hare, *BCom (Toronto)*
 *J.A. Hynes, *AB (Johns Hopkins)*
 J. Landa, *BA (Singapore), MA (UBC), PhD (VPI)*
 G. Newman, *BA, MA (SFU)*
 J.E. Pesando, *BA (Harvard), MA (Calif), PhD (Toronto)*
 S.A. Rea, *AB, PhD (Harvard)*
 F. Reid, *BA (UBC), MSc (LSE, London), PhD (Queen's)*

Geography

- H. Andrews, *BA, MSc (London), DPhil (Sussex)*
 P. Duckworth, *BA, MA, PhD (Toronto)*
 G.H.K. Gad, *D Phil (Nurnberg), PhD (Toronto)*
 A.P. Grima, *BA (Manchester), MA, PhD (Toronto)*
 N.E. Hardy, *BA (Alberta), MA, PhD (Kansas)*
 D.W. Holdsworth, *BA (Newcastle), MA (UBC)*
 C.J. Houston, *BA, MA, PhD (Toronto)*
 S. Luk, *BA, MPhil. (Hong Kong), PhD (Alberta)*
 T.F. McIlwraith, *BA, MA (Toronto), PhD (Wisconsin)*
 D.S. Munro, *BSc, MSc (McGill), PhD (McMaster)*
 S. Schulte, *BA (Bonn), BSc (Montreal)*
 *R.R. White, *BA (Oxford), MSc (Penn State), PhD (Bristol)*

Political Science

- *J. Barros, *AB, MIA, PhD (Columbia)*
 M. Chandler, *BA (CCNY), PhD (N Carolina)*
 D.B. Cook, *BA, MA, PhD (Toronto)*
 R.B. Day, *BA, MA (Toronto), PhD (London)*
 P.W. Fox, *BA, MA (Toronto), PhD (LSE, London)*
 J. Keane, *BA (Adelaide), MA, PhD (Toronto)*
 G. Patrick, *BA, MA (Carleton), BEd (Toronto)*
 F.W. Peers, *BA, BEd (Alberta), MA, PhD (Toronto)*
 D.M. Rayside, *BA (Carleton), AM, PhD (Michigan)*
 P. Sanderson, *BA (California State), MA (Toronto)*
 P. Solomon, *BA (Harvard), MA, PhD (Columbia)*
 J. Terry, *BA, MA (UBC), PhD (York)*

Sociology

- H. Boughey, *BA (Columbia), MA, PhD (Princeton)*
 M. Blute, *BA, MA, PhD (Toronto)*
 *D.F. Campbell, *BA (St Francis Xavier), MA, PhD (C U of America)*
 H. Friedmann, *AB (U Mich), MA, PhD (Harvard)*
 B.S. Green, *BA (Brandeis), PhD (York)*
 J.L. Hagan, *BA (Illinois), MA, PhD (Alberta)*
 W.K. Kalbach, *BA, MA, PhD (Washington)*
 J.B. Kervin, *BA (UBC), PhD (Johns Hopkins)*
 L.A. Riznek, *BA (Carleton), MA, PhD (York)*
 E. Silva, *BA (SUNY), MA, PhD (Michigan)*
 J.H. Simpson, *BA (Seattle Pac Coll), BD, ThM (Princeton Th Sem),
 PhD (Stanford)*
 M.W. Spencer, *AB, MA, PhD (California)*

Erindale College Council

The Erindale College Council develops academic policy, awards scholarships, bursaries, prizes and other awards in the gift of the College and advises the Principal on all matters concerning the conduct of College affairs. It is composed of the chief academic administrators of the College, all members of the teaching staff, 60 full-time undergraduates, 15 part-time undergraduates, 5 graduate students, the Heads of administrative departments, 5 members of the administrative staff, 2 members of the Erindale alumni and 2 members of the Associates of Erindale.

The Council appoints three standing committees, the Executive Committee, Academic Affairs Committee and College Affairs Committee. Each of these may appoint such sub-committees as are deemed necessary to carry on the policy and decision making of the College. Like the Council itself, the composition of all committees reflects the various interests and concerns of all College members.

Principal's Message

I would like to welcome all of you to Erindale College.

In 1979-80 Erindale will celebrate its thirteenth birthday. Since the University of Toronto has recently celebrated its one hundred and fiftieth anniversary, Erindale is one of the youngest colleges in one of the oldest universities in Canada.

This combination of youth and age affords us some unique advantages. We can benefit from the freshness and enthusiasm of youth but at the same time we can enjoy the accumulated wisdom and rich experiences of a well-established and very distinguished university. Since Erindale students are also members of the University of Toronto, they may take lectures and study on both campuses and use the resources in both places.

During the past 13 years, Erindale has grown rapidly. We now have approximately 3,400 full-time and more than 1,100 part-time undergraduates, about 200 faculty, a number of post-graduate students and teaching assistants, and several hundred support and administrative staff.

The College has a fine library which contains 150,000 volumes and offers comfortable accommodation and professional assistance for readers. Erindale's new South Building has excellent laboratories, lecture halls, seminar rooms, a bookstore, meeting place, gymnasium, art gallery, medical facilities, professorial offices, and a large cafeteria. The North Building also has classrooms, lounges, academic offices, and a cafeteria.

Last year we increased the residential accommodation on the campus. We now have comfortable modern facilities for 425 students who live in fully furnished, self-contained townhouses suitable for four to six persons.

Students have an active elected government called the Erindale College Students' Union. ECSU sponsors a number of clubs and events devoted to various interests. There is a student newspaper (*Medium II*), a magazine and a radio station (CFRE). Two athletic directors supervise men's and women's Athletic and Recreational Association (ECARA). There are College sports teams as well as individual activities. Erindale's students are also eligible to participate in the University of Toronto's athletic teams.

Erindale College is fortunate to have a remarkably beautiful campus of 224 acres located on the west bank of the Credit River. Although it is situated within the City of Mississauga only 20 miles west of the centre of metropolitan Toronto, the campus has an original

natural beauty which is characterized by a fine arboretum, extensive open spaces, and woodland trails.

The moderate size of the student body interacting with a faculty of about 200 permits the members of the College to get to know one another more readily than they might at a large institution.

We extend a warm welcome to all new and returning students and to visitors who wish to see and enjoy our facilities.

Paul W. Fox
Principal



1 ADMISSION

Admission Requirements

Written Enquiries:

Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario, Canada
M5S 1A3

Telephone Enquiries:

Office of Admissions (416) 978-2190

Secondary Schools Liaison Office
Erindale College (416) 828-5217

Details of the requirements for admission to the Faculty of Arts and Science are contained in the booklet entitled *University of Toronto, A First Look*, copies of which are available from the Office of Admissions, and from the Guidance Officer at each secondary school in Ontario.

Further information concerning the requirements for admission is available from the Secondary School Liaison Office.

Overseas applicants should request a copy of the *Undergraduate Admission Bulletin* from the Office of Admissions.

Candidates who wish to apply while enrolled in Ontario Grade 13

Candidates who are currently completing Grade 13 in Ontario, and who wish to apply for admission to the programmes of full-time studies which are to be offered during the 1979-80 Winter Session, should apply, at as early a date as possible, through their secondary schools, and should use the application forms which are issued by the Ontario Universities Application Centre.

While attending secondary schools, candidates should:

- 1) Complete a minimum of six credits at the level of Grade 13.
- 2) Choose courses offered in as many of the following areas as possible: English/Anglais, French/Français, other languages, Humanities, Mathematics, Sciences, Social Sciences.
- 3) Choose Grade 13 subjects which will fulfil the prerequisites for those university courses in which they may wish to enrol. Such prerequisites are listed both at the end of this section and after the description of each course later in the Calendar.

Candidates should note that:

- 1) The minimum average required in an Ontario Grade 13 programme in order to be considered for admission to the University and to the Faculty is 60%.
- 2) Applications will be considered from candidates whose qualifications do not comply with the Faculty's normal requirements, but such candidates will have to offer written evidence of exceptional ability, or of extenuating circumstances.

Candidates who wish to apply while enrolled in Senior Matriculation Programmes in other Provinces

Candidates who are enrolled in Senior Matriculation programmes, or the equivalent, in provinces other than Ontario should contact the Office of Admissions at as early a date as possible.

Candidates who wish to apply for Admission as Senior Citizens

Candidates who are at least sixty-five years of age may apply for admission to the College as part-time Special Students. Senior Citizens do not have to meet any academic requirements for admission, and when admitted, will be exempt from the payment of academic fees.

Application Fee

A \$20.00 non-refundable service fee is required of all applicants in the categories which follow, unless they have previously applied to the University of Toronto and paid the service fee. This fee must be remitted by money-order or certified cheque (payable to the University of Toronto) and must accompany the completed application.

Candidates who wish to apply for Admission with Transfer Credit

Candidates who have completed studies with acceptable standing at other universities, or at other Faculties or Schools of the University including Scarborough College, may be considered for admission with transfer credit provided that the content of those studies is fully equivalent to that of one or more of the courses offered by the Faculty.

Candidates who wish to apply for Admission as Non-Matriculants

Candidates at least twenty-one years of age, who are Canadian citizens or landed immigrants, who have never completed an Ontario Grade 13 programme, or its equivalent, and who have been resident in Ontario for at least one year, may request consideration for admission as non-matriculants.

They will be asked to present proof of age, and will be required to complete, with high standing, at least one of the Pre-University courses offered by Woodsworth College, at either the St. George or Erindale Campus.

Information concerning the Pre-University courses may be obtained from the Registrars of Erindale College, the Office of Admissions, or from Woodsworth College, 119 St. George Street, Toronto, Ontario, M5S 1A9, (978-4444).

Candidates who wish to apply for Admission as Special Students

Special Students are those registered in the College but not proceeding towards a degree offered by the Faculty of Arts and Science. Most are either studying here for credit at another institution or, having completed degree studies, are taking further courses for purposes of their own.

Further information concerning the requirements for admission is available from the Office of the Registrar, Room 2122, Telephone 828-5331.

Application Dates

All candidates who seek admission to the faculty should apply as early as possible in the year for which admission is sought. The final dates are:

Summer Session 1979

Summer Evening - April 1, 1979

Summer Day - May 15, 1979

Winter Session 1979-1980

Full-time and Part-time - June 30, 1979

It is to the advantage of the individual applicant to file an application and submit all requested documentation as early as possible,

especially since some programmes and individual courses often have limits on the number of students that can be accommodated. Applicants are urged to submit applications *before* the final dates listed above.

Those candidates who apply for admission on the application forms issued by the Ontario Universities Application Centre are advised that the completed forms must be received by the Centre on the dates listed above; however later applications from candidates in Canada and the U.S.A. will be accepted after these dates *where possible*.

NOTE: Overseas applicants should apply at least six weeks before these dates.

Courses Which Have Secondary School Prerequisites

Area of Study	Course	Grade 13 Prerequisite
Astronomy	AST120Y Survey of Astronomy and Astrophysics	Mathematics R & F, Physics
Chemistry	CHM118Y General Chemistry	Chemistry, Mathematics R & F
	CHM150Y Basic Concepts of Chemistry	Chemistry, Mathematics R & F or C
Computer Science	CSC139H CSC149H Computer Programming Introduction to Computing	Grade 12 Mathematics Mathematics R & F and C
Earth & Planetary Science	EPS120Y Introduction to Earth & Planetary Science	Mathematics R & F and Chemistry or Physics or Biology
French	FRE140Y Studies in Modern French and Québécois Literature	French
	FRE161Y FRE171Y Practical French 1 Language Practice 1	French French
German	GER110Y GER120Y GER130Y Language Practice 1 Modern German Literature German Literature of the 20th Century: Language Practice	German German German
	GER200Y Intermediate German	German
Greek	GRK210H GRK213H Socrates on Trial The Wanderings of Odysseus	Greek Greek

Italian	ITA200Y	Continuing Italian Continuing Italian for Dialect or Native Speakers	Italian
	ITA210Y		Italian
	ITA221Y	Forms of Modern Italian Literature	Italian
	ITA225Y	Italian Literature through the Ages	Italian
Latin	LAT210H	The Poetry of Catullus	Latin
	LAT211H	The Poetry of Horace	Latin
	LAT228Y	Introduction to Roman Law	Latin
Mathematics	MAT132Y	Calculus	Mathematics R & F or C Mathematics A and R & F and C
	MAT138Y	Calculus	
Physics	PHY118Y	The World of Physics	Mathematics R & F or C Physics, Mathematics R & F and C
	PHY140Y	Principles of Physics	
Spanish	SPA220Y	Intermediate Grammar and Composition	Spanish
	SPA258Y	Modern Hispanic Literature	Spanish
Slavic Languages	SLA220Y	Intermediate Russian	Russian
Survey Science	SUR200Y	Introduction to Surveying	Mathematics R & F and C

2

PART-TIME STUDIES

Part-Time Studies

Administrative Staff

*Division of
Part-Time Studies
Associate Dean*

D.P. Morton
R.W. Van Fossen (after July 1, 1979)
L.T. McCormick
C.E. Campbell

*Registrar
Registration Officer*

Registrar's Office, Room 216, North Building, Telephone 828-5244 or 828-5295.

The Erindale Campus provides instruction for part-time students in most disciplines in the Faculty of Arts and Science, and courses leading to the B.Ed.

Special Programme

The B.Sc. programme in Survey Science at Erindale offers courses in the evening for those interested in taking the degree or for those who wish to prepare for the examinations set by the Association of Ontario Land Surveyors. For a complete brochure on Survey Science, write or telephone the Registrar's Office, Division of Part-Time Studies, Erindale College, University of Toronto, Mississauga, Ontario.

General Information

Part-time students have full access to all Erindale facilities and may choose to register in both day and evening courses. Three and one-half courses may be taken in the Winter Session, and two courses may be taken in the Summer Session provided no more than one and one-half are taken in any six-week period (term) during the Session.

Normally, Winter Day courses meet two or three times a week; most Winter Evening courses usually meet once a week for two or three hours. The Summer Evening courses normally meet twice a week. Summer Day classes are held five days a week, either mornings or afternoons, during July and August.

Full details of the courses and programmes available to part-time students in the Summer Session are contained in a publication entitled *Summer Session 1979*, which is available in Room 216, North Building.

Please consult the Course Descriptions in this Calendar for a complete description of all courses available at Erindale College and the St. George Campus Calendar for courses offered there. All courses are available to part-time students, subject to the general regulations for course enrolment.

Admission Requirements

Each *new* student *must* apply for Admission through the Office of Admissions. The admission requirements for part-time studies are the same as those for full-time studies and are described in the Calendar under "Admission Requirements".

Registration Procedures

Summer Session registration forms and *Summer Session 1979* may be picked up in March in Room 216, North Building.

Degree students and *Special* students in Arts and Science with standing in the Faculty do not reapply for admission but follow the normal registration procedures unless they have not attended for two (2) successive sessions. In the latter case, they must apply for re-registration no later than one month before classes begin in the Session they wish to attend.

Special students in Faculties other than Arts and Science should consult their own Faculty for admission and registration procedures.

Counselling

Please contact the Registrar's Office (828-5244) to arrange for an appointment.

3

REGULATIONS

Academic Offerings

Degrees

The following degrees are offered by the Faculty.

Degree	Abbreviation	Minimum Number Of Courses
Bachelor of Arts (Three-Year)	B.A.	15
Bachelor of Arts (Four-Year)	B.A.	20
Bachelor of Science (Three-Year)	B.Sc.	15
Bachelor of Science (Four-Year)	B.Sc.	20
Bachelor of Commerce	B.Com.	23

Further details are contained in the section on "Degree Requirements."

Degree Students — Those students registered in the College who are proceeding to the B.A., B.Sc., or B.Com. Degree.

Special Students — Those students registered in the College who are not proceeding to a degree in this Faculty.

Programmes of Study

The curriculum in Arts and Science is based on the principle that students should have as much freedom to develop their own intellectual and academic interests as is consonant with a sound and worthwhile education. This means that subject to a limitation on the number of 100-series courses and a requirement for a certain number of 300- or 400-series courses, students may take any courses for which they have the stated preparation. The degree requirements may be met by a selection of courses with as high a level of specialization or as great a diversity as the student chooses. This does not mean, however, that course selection should be entirely casual. Students are advised to consult the programmes described at the end of each discipline essay as well as the special and thematic programmes and to consider whether any of these meet their academic objectives.

The Faculty offers two types of programmes involving intensive work in a single discipline, two or more cognate disciplines, or thematically organized among the offerings of several disciplines.

- 1.) Specialist programmes consisting of 9 to 16 full course equivalents in a 20-course programme.
- 2.) Minor programmes consisting of 6 to 8 full course equivalents in a 15-course programme.

Following one or more programmes is recommended to students as a means of organizing their studies, but no student is obliged to do so.

Some courses are likely to attract more students than can be accommodated if a proper standard of instruction and learning is to be maintained. Restrictions on enrolment in such courses may be unavoidable, and students should seek advice from their Registrar and/or Faculty Advisor. In courses with enrolment limits, students affiliated with an approved programme for which the courses are required may be given priority.

Certification

In order to receive proper counselling, students who intend to follow a programme of study are urged to indicate their intention with the sponsoring Department or Programme Co-ordinator when they have completed their first four or five courses.

Upon successful completion of a Specialist or Minor Programme, students may ask to have this fact entered on their transcripts by making application to the appropriate Department or Programme Co-ordinator at the beginning of their final session in the programme. A student may obtain two certifications (two specialist or two minor or one of each) regardless of the discipline or field of study of these certifications.

Courses

The word "course" is used in two senses. In reference to a single course (such as "standing in a course" etc.) the word may be taken to refer equally to a full course or half course. In reference to a given number of courses (such as the requirement of obtaining standing in at least fifteen courses for a three-year degree) the word refers to a number of full courses or the equivalent number in full and half courses.

To "pass a course" or "obtain standing in a course" normally means to obtain a mark of 50 or more in that course ("Pass" in "Pass/Fail" courses). Note that a grade of "C" (a mark of 60 or more) is required in a certain number of 300- and 400-series courses before a degree may be granted.

Prerequisites, Corequisites, etc.

Exclusion: A student may not enrol in a course which lists, as an exclusion, one which he is also taking or in which he has already obtained standing.

Prerequisite: A course (or other qualification) required as preparation for entry to another course. If a student considers that he has equivalent preparation, he may ask the Department concerned to waive the stated prerequisite.

Corequisite: A requirement to be undertaken concurrently with another course. The corequisite will be waived if a student has previously obtained standing in it or if the Department consents.

Recommended Preparation: Background material or courses which may enhance a student's understanding of a course.

Students are responsible for fulfilling prerequisites and corequisites and for observance of exclusions. Failure to meet these requirements may result in academic difficulties or, in the case of exclusions, refusal of degree credit. If a student withdraws from a course he must also withdraw from any course for which it is a corequisite unless the Department giving the latter course agrees to waiver of corequisite.

Courses Offered on the St. George Campus

Subject to written approval from Erindale and the department concerned, students registered at Erindale who have completed 14 or more credits may take several courses on the St. George campus. Others are restricted to two or less. Students should consult their Registrar for details.

Courses of Other Divisions

Certain courses offered in other Faculties and Schools of the University may be appropriate for the programme of students in Arts and Science. After consulting an academic advisor, students should petition through the Office of the Registrar, if possible, well before the beginning of the course(s) concerned. Permission to take such courses for degree credit will be granted when the student's particular aims are consistent with an Arts and Science programme but cannot be met by courses offered by the Faculty of Arts and Science.

Courses of Other Universities (Letters of Permission)

A student who has obtained standing in at least a half-course in this Faculty and who finds that he will be living, temporarily, at such a distance from any of the three campuses that it will be impossible for him to attend classes, may request a Letter of Permission to register at another University for a maximum of four courses, depending on the number and level of the courses accepted on admission and completed in this Faculty. Degree credit for only one 300- or 400-series course will be given for work done while registered outside this Faculty.

Letters of Permission will not be issued to students who are on Academic Probation or Suspended from registration in the Faculty. A student seeking re-registration in the Faculty who has studied at another University since his last registration here must submit an official transcript with his application for re-registration, whether or not he intends to seek transfer credit. His status, including his eligibility to resume his studies in the Faculty, will be assessed including the results obtained in the courses taken elsewhere.

Credit of Courses Toward a Degree

All courses will be for degree credit unless:

- (a) the course is a 100-series course and the maximum number of such courses allowable for degree credit has already been completed, or
- (b) special permission has been given by petition for courses to be taken as "extra courses".

Courses already completed may not be designated as "extra" retroactively.

Choosing Courses

1. Each student may plan his own programme, selecting from among all courses offered, subject to the following rules:
 - (a) The degree requirements and other regulations set out in the Calendar and its supplements must be satisfied.
 - (b) All prerequisite, corequisite and exclusion requirements must be met.
 - (c) No more than six 100-series courses may be taken for degree credit.
2. Each student may proceed towards the degree at a rate of his own choosing, except as provided below:
 - (a) The typical load of a full-time student in the Winter Session is five courses and the maximum is six. Students in the Commerce and Finance Programme normally take five courses in the first Winter Session and six in the succeeding Winter Sessions.
 - (b) No student may have a course load of more than six courses in any one term in the Winter Session. "A" and "B" courses count double in computing term course loads.

- (c) The maximum load in the Summer Session is two courses, with a course load of not more than three in either term. Note particularly that two "B" courses (or one "B" and two "S" courses) may not be taken.
 - (d) A student who is On Academic Probation may take no more than five courses in the Winter Session.
3. Students who do not intend to complete a course or courses must notify their Registrar promptly, in writing, before the final date to withdraw. Every year some students obtain a mark of "0" on their record because they did not notify their Registrar of their intention to delete a course.
 4. Students may not repeat any course in which they have already obtained standing. There are no supplemental examinations or provisions to rewrite an examination to "upgrade" a mark.

Calculating Course Load

For the purpose of calculating course loads, the following table should be used:

Suffix	Load per Session	Load per Term
Y	1	1
H	$\frac{1}{2}$	$\frac{1}{2}$
A, B	1	2
F, S	$\frac{1}{2}$	1
Z	no credit	

As explained in the section on *Key to Course Descriptions*, the suffixes, A, B, F, S appear only in the Calendar Supplement and are related to the specific scheduling of the courses.

Registration, Enrolment, Withdrawal

Registration refers to the process of establishing membership in a College of this Faculty for the purpose of attending courses.

Enrolment refers to a student's formal undertaking to take a specific course or courses. Registration and enrolment procedures are detailed in the Calendar Supplement.

For the last dates for enrolment in and withdrawal from courses, students should consult the "Sessional Dates" at the front of this Calendar and in the Supplement. After these dates, students may not normally enrol in or withdraw from courses. Students whose circumstances are unusual may petition through the Registrar to seek the approval of the Committee on Standing. Permission to register late in the Faculty, and to enrol in courses after the normal date, may be refused at any time.

Any student allowed to register one day after the appropriate registration period will be charged a late registration fee of \$10.00; for each day thereafter the fee is an additional \$1.00.

Students who withdraw from a course or courses before the last date are entitled to a fees adjustment, the amount of which is determined by the date written notification of withdrawal is received by the Registrar. Every Student who is still enrolled in a course after the final date to withdraw will receive a grade for that course, even if he stopped attending classes or did not write the examination. Full information on withdrawal procedures and fees adjustments may be obtained from the Registrars.

Students who find it necessary to withdraw altogether from the University, must notify their Registrar before the last day to withdraw listed in the "Sessional Dates." Merely ceasing to attend classes does not constitute withdrawal. Before any refund is authorized, they must:

- Pay any outstanding fees.
- Return any books to the Library and pay any outstanding fines.
- Surrender any Book Store charge cards and pay outstanding accounts.
- Surrender their Student Cards.
- Vacate any laboratory or athletic lockers and return any equipment in their possession.

Transfer of Registration Between Colleges

Students who wish to transfer to another College must request a transfer by petition through their Registrar. Last date to submit such a petition is July 1.

Standing in Courses

Students are assigned a grade in each course as follows:

Percentage	Grade	Value	Grade Definitions
90–100	A+	4.3	Excellent
85–89	A	4.0	
80–84	A–	3.7	
77–79	B+	3.3	Good
73–76	B	3.0	
70–72	B–	2.7	
67–69	C+	2.3	Adequate
63–66	C	2.0	
60–62	C–	1.7	
57–59	D+	1.3	Marginal
53–56	D	1.0	
50–52	D–	0.7	
Pass/Fail Course: Credit		No Value	
35–49	E	0.3	Inadequate
0–34	F	0.0	Wholly Inadequate

Pass/Fail Course: No Credit No Value

Grades of "E" and "F" are both *failures*. There are no supplemental examination privileges in the Faculty.

Other notations which do not have grade point values are:

- AEG AEGROTAT STANDING — on the basis of term work and medical evidence.
- SDF (*Previously SD*) STANDING DEFERRED — completion of course delayed for medical or similar reasons.
- WDR (*Previously W*) LATE WITHDRAWAL — with permission.

(These three may be authorized only by the Committee on Standing by Petition.)

Grading Regulations

The Committee on Academic Standards administers the Grading Regulations including approved methods of evaluation. It also reviews course grades submitted by Departments. The Faculty through the Committee on Academic Standards has final responsibility for assigning the official course grades.

Grading Regulations (continued)

Each Chairman shall appoint a review committee under his chairmanship or that of his designate to review grades submitted by instructors. The committee may ask for clarification by the instructor(s) of any anomalous results, distributions, or disparity between sections of the same courses. Both the departmental review committee, through the chairman, and the Faculty review committee, through the Dean, have the right to monitor and review marks and, in consultation with the examiner or instructor of the course, to adjust marks where there is an obvious and unexplained discrepancy between the marks submitted and the perceived standards of the Faculty. Final marks are official, and may be communicated to the student, only after the review procedure has taken place. Students are informed officially of their results by the Secretary of the Faculty.

As early as possible in each course and no later than the last date to add or drop the course, the instructor shall announce in a regularly scheduled class the methods by which student performance will be evaluated and the relative weight of these methods (including any discretionary factor). It is understood that these methods shall be in accord with applicable University and Faculty policies.

Once the weight for different assessments within the method of evaluation to be used is explicitly given, it may not be changed without the unanimous consent of all students taking the course who are present and voting at a regularly scheduled meeting of the class. No change may take place after the last date to withdraw without academic penalty without the unanimous consent of all students taking the course who are present and voting at the first regularly scheduled meeting of the class subsequent to the regularly scheduled meeting of the class at which the issue is first raised.

All written work carried out for evaluation purposes should be returned to the students with such detailed comment as the instructor deems appropriate, and time for discussion of it made available. The instructor is required to keep for six months beyond the end of term, term work that has not been claimed.

Both essays (or equivalent work) and examinations (including term examinations) should normally be required for standing in courses leading to a degree. In courses where only one form of evaluation is used, a single piece of work should not normally count for all of the final mark. A common Faculty final examination counting for at least one-third of the final mark must be held in each 100-series course unless exemption has been granted by the Committee on Academic Standards. In 200-, 300- and 400-series courses, Departments will decide whether or not an examination is appropriate and report to the Committee on Academic Standards. The relative value of each part of a written examination will be indicated on the examination paper.

Each instructor must submit to his Chairman with his marks, a statement of the relative weighting of the various components of the final mark, including the extent to which group evaluation, self evaluation and multiple-choice examinations were used. Self evaluation and group evaluation, where permitted, must not have a combined weight of more than 50% in the determination of the final grade in any course. Group evaluation will be allowed only when each member of the group has consented to this form of evaluation and permission has been obtained from the Committee on Academic Standards.

Averaging

A Grade Point Average (GPA) is defined as the weighted sum of the grade points earned, divided by the number of courses in which grade points were earned. A half-course will carry half the weight of a full course. An "F" in a Pass/Fail course will be included. However, courses completed with the notations "AEG" or "PASS" are not included in the averaging process; neither are transfer credits, courses taken on a Letter of Permission, or courses designated as "extra".

Two types of averages are used. The sessional GPA is based on the courses taken in a session (summer or winter) while the cumulative GPA takes into account all courses taken for degree credit in the Faculty beginning with the 1976-77 Winter Session. Both the sessional and cumulative GPA are used at the end of each session (summer or winter) in assessing academic status and in determining the rate of progress toward the degree.

The sessional GPA will be identical to the cumulative GPA for purposes of assessing a student's academic status in the first session (summer or winter) in which that student is subject to the Faculty's GPA regulations.

The computation of an average will be delayed if any course has the notation "SD".

Academic Status:

NOTE: The regulations on academic status apply to both Degree and Special students.

1. A student shall be *on academic probation* who
 - (a) Was admitted to the Faculty on probation or
 - (b) Has attempted at least four courses in the Faculty and has a cumulative GPA of less than 1.50 or
 - (c) Returns from suspension.
2. A student who, at the end of any session (Winter or Summer) during which he is on probation
 - (a) Has a cumulative GPA of 1.50 or more shall come off probation
 - (b) Has a cumulative GPA of less than 1.50 and a sessional GPA of 1.70 or more shall continue on probation.
 - (c) Has a cumulative GPA of less than 1.50 and a sessional GPA of less than 1.70 shall be *suspended for one calendar year* unless he has been suspended previously, in which case he shall be suspended for *three years*.
3. A student who, having been suspended for three years, is again liable for suspension shall be *refused further registration* in the Faculty.

NOTE: There are two sessions (Summer and Winter) in each calendar year and status is assessed following each of them.

All courses from which a student does not withdraw before the normal last date to withdraw from courses, are considered as course attempts unless "late withdrawal without academic penalty" is granted by petition.

A student's status as established under the regulations in effect before the GPA system was adopted in September 1976, will remain unchanged until he has completed one full session (Summer or Winter) after September 1976, at which time it will be re-assessed in terms of the GPA provided that at least four courses in total have been attempted.

Degree Requirements

Three-Year Degree (B.A. or B.Sc.)

- To qualify for a three-year degree, a student must
- (a) Obtain standing in at least 15 courses, no more than six of which are 100-series;
 - (b) Obtain a grade of C- or better in each of three 300- or 400-series courses;
 - (c) Obtain a cumulative GPA of 1.50 or more, and
 - (d) For the B.Sc. degree, take at least six 200- or higher series courses in Science, as defined below.

Four-Year Degree (B.A. or B.Sc.)

- To qualify for a four-year degree, a student must
- (a) Obtain standing in at least 20 courses, no more than six of which are 100-series,
 - (b) Obtain a grade of C- or better in each of six 300- or 400-series courses.
 - (c) Obtain a cumulative GPA of 1.50 or more, and
 - (d) For the B.Sc. degree, take at least nine 200- or higher series courses in Science, as defined below.

Courses in Science for the B.Sc. Degree

The following are considered to be courses in Science for the purpose of determining eligibility for the B.Sc. degree:

ACT, ANA, ANT203Y, 228H, 229H, 231H, 328H, 330H, 332Y, 333H, 334Y, 336H, 338Y, 339H, 430Y, 433H, 434H, APM, AST*, BCH, BIO, BOT, CHM, CLB, CSC, ECO220Y, EPS, GGR200H, 202H, 206H, 207H, 212H, 214H, 280H, 300H, 303H, 304H, 305H, 320Y, 372Y, 373H, 374H, 376H, 381H, 383H, 491Y, GLG, JAZ*, JBH*, JLM*, JLP*, JPA*, JPZ*, JZP*, MAT, MPL, NEW230Y, NFS(except NFS284H), PCL, PHY, PSL, PST, PSY, STA, SUR (except SUR250H, 350H, 360H, 430H, 450H), ZOO.

**Only selected courses qualify. Consult the Faculty Advisor and the appropriate calendar descriptions for details.*

Bachelor of Commerce Degree

A student shall be qualified for a Bachelor of Commerce Degree when he has:

- 1) Obtained standing in 23 *courses* chosen in accordance with requirements for the Commerce and Finance programme, including no more than six 100-series courses;
 - a) A minimum of seven credits in Commerce including COM100Y/102Y, 220Y, 337Y, 450Y and 3.0 additional full course equivalents in COM.
 - b) A minimum of seven credits in Economics including ECO100Y, 200Y, 202Y; ECO201Y/203Y/221Y/322Y; ECO220Y/STA242Y.
One of ECO310Y, (325H and 326H), 328Y, and one full course equivalent in ECO
 - c) MAT130Y/132Y/134Y/135Y
 - d) CSC139H,
 - e) *Two and one-half full course equivalents* other than Commerce and Economics including two or more 200- or higher series courses
 - f) *Five full course equivalents* from any discipline including Commerce and Economics.
- 2) Students must obtain an overall average of 65% on the Commerce and Economics courses above the 100-series included in their programme. In addition a cumulative GPA of 1.50 or more must be obtained for all courses included in the student's programme, and a grade of "C-" or higher must be obtained in each of at least six 300- or 400-series courses.

Choice of a Degree

A student may choose to have his degree conferred after having completed the requirements for either the three-year or four-year degree. A student who chooses to receive a three-year degree may continue his studies; completion of the four-year degree requirements will be noted on his transcript but he will not graduate a second time. A three-year degree leads only to a four-year degree in the same field, i.e. a three-year B.A. leads only to a four-year B.A. etc., *though five courses taken towards a degree in one field may, on petition, be counted towards a degree in a different field.*

Faculty Final Examinations

Two- or three-hour final examinations are held at the end of both terms in each session. Students who make personal commitments during the examination period do so at their own risk. No special consideration will be given and no special arrangements made in the event of conflicts. Information regarding dates and times of examinations will not be given by telephone.

Rules for the Conduct of Examinations

- 1) No persons will be allowed in an examination room during an examination except the candidates concerned and those supervising the examination.
- 2) Candidates must appear at the examination room at least twenty minutes before the commencement of the examination.
- 3) Candidates shall bring their signed student registration cards and place them in a conspicuous place on their desks.
- 4) Bags and books shall be deposited in areas designated by the Presiding Officer and are not to be taken to the examination desk or table. Students may place their purses on the floor under their chairs.
- 5) The Chief Presiding Officer has authority to assign seats to candidates.
- 6) Candidates shall not communicate with one another in any manner whatever, during the examination.
- 7) No materials shall be brought into the room or used at an examination except those authorized by the Chief Presiding Officer or Examiner.
- 8) Candidates who bring any unauthorized material into an examination room or who assist, or obtain assistance from other candidates or from any unauthorized source, may not be permitted to write the remaining part of the examination or subsequent examinations. Such candidates are also liable to penalties under the Code of Behaviour, including the loss of academic credit and expulsion.
- 9) Except with the consent of the Secretary of the Faculty, candidates will not be permitted to enter an examination room later than fifteen minutes after the commencement of the examination.
- 10) Candidates will not be permitted to leave the examination room except under supervision until at least half an hour after the examination has commenced.
- 11) Candidates shall remain seated at their desks during the final ten minutes of each examination.
- 12) At the conclusion of the examination, all writing within the answer books shall cease, and the Chief Presiding Officer may refuse to accept the papers of candidates who fail to observe this requirement.
- 13) Examination books and other material issued for the examination shall not be removed from the examination room without the authority of the Chief Presiding Officer.
- 14) Smoking in the examination room is not permitted.

Outside Centre Fee

Each student who is granted permission to write an examination at a centre outside of Toronto must submit with his application a fee of \$15.00 for each paper to be written. Such permission is granted only in the most extreme circumstances.

Checking of Marks

Courses with Faculty Final Examinations:

After the issue of final results and within six months of the final examination period, a student may request from the Registrar's Office a reproduction of his final examination for a fee of \$5.00. If, upon inspection of this, he wishes to have the paper re-read, he must set down his reasons in detail and petition through his Registrar within six months after the final examination period. If the mark is changed as a result of this petition, the \$5.00 fee will be refunded.

Students should note that failed examinations must be re-read before the marks are reported, and instructors may not subsequently re-read any final examinations except on the authority of a petition, *which will be granted only when it contains specific instances of disagreement with the existing grading and an indication of the grounds for such disagreement.*

All courses:

Within the six month period a student may request a clerical check of the calculation of the marks in a course, upon payment of a fee of \$5.00 per course. If an error is discovered, the fee for checking that course will be refunded.

Note: Students must accept the fact that any recheck or re-reading may lead to a lowering of the mark, or to a raising of the mark, or to no change.

Student Records

Personal Information

Personal information provided at the time of admission is verified and brought up to date by the College Registrar at the time of registration in subsequent sessions. This information is a vital part of the student's official University record and is used to issue Statements of Results, transcripts, graduation information, diplomas and other official documents. The University is also required by law to collect certain information for the Federal and Provincial Governments; this is reported only in aggregate form and is considered confidential by the University.

Any change in the following must therefore be reported immediately to the College Registrar:

- 1) Legal name
- 2) Permanent or home address and telephone number
- 3) Sessional address and telephone number
- 4) Social Insurance Number
- 5) Citizenship status in Canada
- 6) Marital status

Student Card

The student card is a wallet-sized card required for identification purposes within the University, such as evidence of registration in the Faculty and in a particular College, participation in student activities, Athletic Association privileges, and identification at Faculty examinations. A separate card is issued by the University Library.

The loss of the student card must be reported promptly to the student's Registrar, and the card must be surrendered if a student withdraws from the University or transfers to another College or Faculty.

Transcripts

The transcript of a student's record reports the standing in all courses attempted, information about the student's academic status including record of suspension and refusal of further registration, completion of degree requirements and conferral of the degree, and completion of a specialist or minor programme.

Copies of the transcript will be issued at the student's request, subject to reasonable notice and on payment of a nominal fee. Requests should be submitted in person or by writing the Faculty of Arts and Science, Sidney Smith Hall, 100 St. George St., Toronto M5S 1A1. There is no charge for transcripts issued within the University. A fee of \$1.50 (including tax) for the first copy, plus \$0.50 (including tax) for each additional copy ordered at the same time, will be charged for transcripts to all other destinations. Payment *MUST* accompany such requests.

Petitions

Students should always consult their Registrar for guidance if anything happens which interferes with continuing or completing their courses, or which appears to be contrary to rules, regulations and deadlines. Students are responsible for knowing the rules and regulations in the Calendar and its supplements; failure to observe them can result in academic and/or financial penalties. However, if a student has genuine difficulties in complying with a particular regulation, he may petition that the regulation be waived or varied. Petitions are initiated in the Registrar's Office and are considered in confidence by or on behalf of the Committee on Standing. This Committee is charged with interpreting and administering the regulations of the Faculty and may, in special circumstances, grant exceptions and attach conditions. *The authority of the Committee does not, however, extend to the pedagogical relationship between instructor and student.*

Appeals

Decisions of the Committee may be appealed to the Academic Appeals Board of the Faculty within six months of the date of the decision being appealed. Particulars of this procedure may be obtained from the Registrar.

Aegrotat Consideration

If the ability of a student to complete a course is affected by illness or domestic problems *beyond his control*, a petition may be made for consideration by the Faculty. If there are adequate grounds for the petition, the Department concerned will determine the status of the work already done and the steps, if any, that must be taken in order to complete the course. *Students will not be excused any part of the work of the course but may be allowed additional time for its completion, or an alternative examination etc.*

Such petitions must be filed with the student's Registrar on or before the last day of the relevant final examination period, together with a medical certificate which includes a statement that the student was examined at the time of the illness, or other evidence to support the petition. If necessary, the medical certificate or other supporting evidence may follow, but the petition must be submitted before the examination period ends.

Discipline

The Governing Council of the University of Toronto has approved a Code of Behaviour regarding academic discipline applying to students and members of the teaching staff of the University. The full text of the Code is available from the Faculty Office and the Registrar's Offices. The Code is enforced by the University Disciplinary Tribunal.

Code of Behaviour in Academic Matters

Academic Offences

In order to protect the integrity of the teaching, learning and evaluating processes of the University it shall be an offence for any member knowingly

- 1) to use or possess unauthorized assistance in any academic examination or term test or to use unauthorized assistance in any other form of academic work
- 2) to represent as that of the member in any academic work submitted for credit in a course or programme of study, any idea or expression of an idea of another
- 3) to submit for credit in any course or programme of study, without the knowledge and approval of the member to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or programme of study in the University or elsewhere
- 4) to submit for credit in any course or programme of study any academic work containing a purported statement of fact or reference to a source which has been concocted
- 5) to forge or in any other way falsify any academic record of the University or to forge or in any other way falsify any academic record of another institution used for the purposes of the University of Toronto, or to utter or make use of any such forged or falsified records
- 6) to remove books or other library material from a University library without proper authorization, to wilfully mutilate library material or misplace it, or in any other way wilfully to deprive other members of the University of the opportunity to have access to library resources.

Sanctions

The following sanctions, listed in order of increasing severity, may be imposed by the Tribunal upon conviction of any student of any offence:

- a) Caution
- b) Censure
- c) Assignment of a mark of zero in academic work submitted for credit
- d) Failure in or cancellation of credit for any course or other academic work in respect of which any offence was committed
- e) Suspension from attendance in all courses in which the student is registered at the time the offence was committed for any period less than twelve months from the date on which the offence was committed, and loss of credit for any course or courses which have not been completed or in which no grade or final evaluation has been registered at the time the offence was committed
- f) Suspension from the University for such period as may be determined by the Tribunal; or
- g) Expulsion from the University.

NOTE: Withdrawal from a course will not preclude proceedings in respect of academic offences under the Code of Behaviour will have their names included in a report by the Provost to the Academic Affairs Committee.

4 FEES

Tuition Fees

Each session students are required to pay tuition fees as established by the Governing Council and set out in the Schedule of Fees.

Tuition fees normally consist of two parts: academic fees (including instruction and library) and incidental fees (including Hart House, Health Service, athletics and student organizations). Additional fees may also be assessed to cover such items as instruments, microscopes, screening charges, field trips and special laboratory charges.

The information which follows is intended only as a general guideline and may be superseded by that in the Schedule of Fees, which should be consulted for accurate, detailed information. For further information concerning fees, students should contact the Fees Office, Room 3091, South Building, Erindale College, Mississauga, Ontario, L5L 1C6, Telephone 828-5202.

Method of Payment

Payment must be made by *Money Order* or *Cheque* in Canadian funds payable to "The University of Toronto"; personal cheques must be *Certified*. Cash is accepted only if payment is made in person.

The amount of fees to be paid is determined by the number of courses to be taken. Students should consult the *Supplement to the Calendar* for instructions on completing the registration form and determining the fees payable.

Payment Deadlines (For the Winter Season)

Fees are due prior to registration and may be paid in full or a minimum payment consisting of 60% of academic fees and 100% of incidental fees may be made as indicated on the Schedule of Fees. All accounts must be paid in full by January 15th.

In order to avoid delays and long line-ups students are advised to pay their fees early and by mail.

Service Charges

Beginning September 15th all outstanding balances, regardless of the source of payment, are subject to a service charge of 1-1/2% per month (18% per annum) calculated on the 15th of each month until the account is paid in full.

Fees for Foreign Students

In accordance with the recommendations of the Government of Ontario, certain categories of students who are neither Canadian citizens nor landed immigrants are charged academic fees of approximately \$1,500.00 per session. Refer to the Schedule of Fees for details.

Sanctions for Non-Payment of Fees

Students who have not paid their accounts in full may not receive official statements of results, transcripts or diplomas and may not re-register at the University until these accounts are paid.

Fees are subject to change at any time by approval of the Governing Council.

Other Fees**Residence Fees**

Residence fees are separate and will be approximately \$800.00 to \$875.00 per annum for townhouse accommodation in 1979-80. Meals may be bought in the College cafeterias or prepared in the townhouse kitchens.

Use of Awards to Pay Fees*a) Ontario Student Assistance Programme:*

A student may pay his fees out of his own funds without jeopardizing his Government assistance in any way. A student wishing to use his Government awards to pay his first term fees, should enclose the "Notice of Assessment", which he received from the Ministry of Colleges and Universities, with his fees form and submit both to the Fees Office, Erindale College.

b) Scholarships and Bursaries

A student may apply to his fees any scholarship or bursary paid by or through the University. After deductions for any fees which may be outstanding, the balance, in the form of a cheque, will be mailed to the student on or after November 20.

5

RESOURCES

Counselling

College Registrars

The College Registrars are the focal point for information and advice of all kinds. The Registrars and the staff of the Registrar's Office are the experts on rules, regulations, degree requirements and everything that affects the student's academic life. Any question or problem that is affecting the student's academic progress such as a personal problem or a question about course selection, should be brought to a Registrar. All requests for special consideration because of circumstances over which the student has no control take the form of a "petition" and are initiated only through the Registrar. When in doubt, ask your Registrar.

Division of Humanities - Dr.L.T. McCormick Room 216 North Building

and Part-Time Studies

Division of Sciences - Dr.G.R. Watson Room 2122 South Building

Division of Social Sciences - Mrs. M.H. Cooper Room 2122 South Building

Professors

Faculty Advisors and Discipline Representatives can give more detailed advice on individual courses and on the programmes that are centred in their Departments. Their names will be found at the beginning of the essay of each discipline in the main body of this Calendar. Many disciplines publish brochures outlining their courses and programmes in more detail than is possible in the Calendar and these are available at their offices. Students are often directed as well, to individual instructors for counselling about their courses.

Professional Faculties

Professional faculties or schools such as Dentistry, Education, Law, Library Science, Management Studies, Medicine or Social Work admit only graduates or students who have completed certain preparatory work in the Faculty of Arts and Science. Their calendars should be consulted for details on specific requirements.

Career Counselling

The Career Counselling and Placement Centre, located at 344 Bloor Street West, 4th Floor, offers a mini-service at the Erindale campus. A career counsellor visits Erindale College one day per week, and is qualified to help students who wish to plan their career and also to seek employment. Appointments can be made by contacting the ECSU office.

A small career information library is available in the Crossroads building, 2nd Floor Alcove. It includes information on a number of career areas as well as general details relating to career planning and job-hunting techniques.

The On-Campus Recruitment programme is a service for all undergraduates who are interested in summer and permanent employment. The employers who participate in the programme consist of the federal government, large national and multinational corporations. They visit the University annually to select students and future graduates for positions which begin in the Spring. At the Crossroads location students may learn which employers will be visiting the University, read brochures from these employers describing job opportunities and obtain and submit application forms. Interviews are conducted on the St. George Campus. The On-Campus Recruitment Programme begins in October; graduating students are advised very strongly to start their job search very early in the academic year.

Those graduating students who have not found permanent employment by March may use the Permanent Job Registry. Information regarding this service is available at the Crossroads location.

Listings of part-time, temporary and summer jobs may be consulted at the Crossroads location during the winter season. During the summer students are advised to seek assistance from the Career Counselling and Placement Centre on Bloor Street and from the Canada Manpower Student Summer Job Centres.

The Ontario Student Assistance Programme

The components of the Ontario Student Assistance Programme are as follows:

1) *The Ontario Study Grant Plan*

The main purpose of the Ontario Study Grant Plan is to provide non-repayable grant assistance to students from less affluent families, normally for their first four years of post-secondary education.

2) *The Canada Student Loans Plan*

The main purpose of the Canada Student Loans Plan is to provide need-tested loan assistance up to and including the doctoral level of study. Students who have reached "independent status" can be assessed for loan assistance without reference to their families' income.

3) *The Ontario Student Loans Plan*

The main purpose of the provincial loans plan is to make need-tested loan assistance available to students who are not covered by the Canada Student Loans Plan. In 1979-80 this will include students taking less than 60% of a normal course load and some full-time students whose needs are not fully met by the Canada Student Loans Plan.

4) *The Ontario Special Bursary Plan*

The main purpose of the Special Bursary Plan is to ensure that particularly needy part-time students receive grant assistance. There will continue to be an upper limit on the number of courses that a student can take (3 full credit courses or their equivalent) and students will not be able to receive financial assistance from both this programme and the Ontario Study Grant Plan at the same time.

All students who are attending the University of Toronto may qualify for aid under one or more of these plans provided they satisfy the residency requirements as outlined in the Ontario Stu-

dent Assistance brochure and demonstrate financial need. Students wishing to apply under the Ontario Study Grant Plan, the Canada Student Loans Plan or the Ontario Student Loans Plan can do so on the same application form. Students intending to apply under the Ontario Special Bursary Plan should contact the Student Aid Office (828-5234) or the Office of Student Awards (978-2204) directly to arrange a personal interview.

Application forms and brochures for the 1979-80 programme will be available in April 1979 and can be obtained from the Student Aid Office, Room 211, North Building (Tel. 828-5234) or from the Office of Student Awards, University of Toronto, Room 107, Simcoe Hall, Toronto M5S 1A1 (Tel. 978-2204).

For further information on financial aid please obtain a current copy of the Erindale College Awards Bulletin from the Student Aid Office, Room 211, North Building or the Registrar's Offices in both the North and South Buildings.

Miscellaneous

Library

Erindale College Library has an excellent and ever-growing collection of books, periodicals, film strips, cassettes, clippings and other materials now numbering 190,000 items. This extensive library is staffed with people trained to help the student use the Library's resources.

In addition to the College Library, students and faculty have access to more than three million volumes of the University of Toronto Libraries on the St. George Campus. There is a regular book delivery service from the University of Toronto Libraries to the Erindale Campus. Telephone 828-5239.

University Health Service

The University Health Service offers a partial but reasonably comprehensive medical service for students on the Erindale Campus throughout the academic year for treatment and advice. Students are encouraged to discuss their concerns about contraception, drug problems, unwanted pregnancies, sexual life and venereal disease. Extensive treatment and care for athletic injuries is available.

Psychiatric consultation and counselling to assist the students with emotional and social problems are readily available.

The primary responsibility of the Health Service is to the student; therefore, all consultations, medical and psychiatric, are strictly confidential and form no part of any "University Record". Information acquired from students will not be given to anyone at anytime without the express permission of the student.

Health Service Hours

Monday to Friday 9:00 a.m. - 5:00 p.m. Telephone 828-5255.

After 5:00 p.m. Telephone 978-2458.

Athletic Requirements

Physical examination is recommended for those taking part in competitive body contact sports.

Athletics and Recreation

The Athletic and Recreation Department in conjunction with the Erindale College Student Athletic and Recreation Association (ECARA) is responsible for the planning and operation of programmes for the Erindale College community.

The programme is wide in scope, including instruction, activity clubs, fitness testing, intramural leagues for men and women, and college teams. With the exception of the ice hockey and rowing,

athletic programmes take place in the physical facilities on campus which include a gymnasium, weight training room, teaching studio, recreation room, three squash courts, outdoor swimming pool, playing fields, and six tennis courts. At present, Erindale College teams compete in all University of Toronto Interfaculty leagues and with other colleges and universities on an exhibition basis.

In addition to the facilities and programmes on the Erindale campus, students may use the facilities on the St. George campus, as well as participate in their on-campus and intercollegiate programmes.

For inquiries about the athletic programme, telephone 828-5268(9).

Residences

Erindale College offers unique residence accommodation for up to 428 students. Townhouse style residences make it possible for students to share expenses on a co-op basis. Students have estimated they can save up to \$200 per year by preparing their own meals. Each house also governs itself cooperatively. All are fully equipped and furnished (except linen).

Four-person houses have four single study-bedrooms, plus living room, kitchen and dining areas.

Six-person units are made up of two single study-bedrooms, two double study-bedrooms, plus communal kitchen and living areas. There is a common laundry facility for each eight units. Residences are just a few minutes' walk from the library, classrooms, and cafeterias where students can buy meals when they wish.

Costs are approximately \$875 per year, September to May, for a single at present and approximately \$800 per year for a double.

For further information contact the Housing Office, Colman Place, Erindale College, Mississauga Road, Mississauga, Ontario, L5L 1C6 or telephone 828-5286.

Office of the University Ombudsman

The University Ombudsman investigates grievances or complaints against the University, or anyone in the University exercising authority, from any member of the University - student, faculty or administrative staff. He assists in any way he can, resolving grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, he has access to all relevant files and information, and to all appropriate University officials.

The Ombudsman also provides information to members of the University about their rights and responsibilities, and the procedures to follow in order to pursue whatever business or complaint they may have.

All matters dealt with by the Ombudsman are handled in a strictly confidential manner unless the individual involved approves otherwise. The Ombudsman is independent of all administrative structures of the University, and is accountable only to the President and the Governing Council.

For information, advice or assistance, contact the Office of the University Ombudsman, University of Toronto, 16 Hart House Circle, Toronto, Ontario M5S 1A1 (Telephone 978-4874). Members of the University at the Erindale and Scarborough Campuses may arrange to meet with the Ombudsman at their respective campuses or at the St. George Campus, whichever is more convenient.

Campus Organizations

Responsibility for recognition of organizations where the membership is drawn from a single College, Faculty or School rests with the Council of that division. Where University-wide organizations (or organizations drawing members from more than one division or

constituency of the University) are concerned, responsibility is vested in the Internal Affairs Committee of the Governing Council. Eligibility for recognition is assessed annually. The constitutions of every society or association, and all subsequent amendments to such constitutions, shall be submitted to the appropriate administrative officer for perusal. The objectives and activities of groups seeking recognition should be seen as attempting to contribute to the educational, recreational, social or cultural values of the University. Membership in groups should be open to all members of the University community without restriction on the grounds of national origin, race, religion, colour, or sex. Status as non-voting members may be extended to interested persons from outside the University.

Students' Administrative Council (SAC)

The Students' Administrative Council is the central student government for all full-time undergraduates. Members are elected from their local college or faculty. The SAC office is in the Old Observatory, on the St. George campus, across from Hart House, and is open all day to provide information and assistance. SAC also maintains four other central points of focus for both tickets and information: the Information Desk (in cooperation with ECSU) in the South Building Meeting Place at Erindale, the SAC Office or "Room Under The Stairs" at Scarborough, the Information Desk at Sidney Smith on the St. George Campus and the Dentistry Ticket Outlet at the Faculty of Dentistry.

SAC provides a variety of services, including concerts, films and speakers at all three campuses, as well as representing the interest of all students both at the university and off campus. Further information with respect to SAC services and information regarding the university in general is provided in the SAC Student Handbook, available in the fall to all students.

The SAC publishes a Student Directory containing the names, addresses and telephone numbers of all students, which is available in the late fall. Students who wish their names to be omitted should send a written request to the SAC office or the Office of Statistics and Records in the early fall. (Telephone 978-4911).

The Erindale College Student Union (ECSU)

The Erindale College Student Union serves as an important link between students and the administration of the College and University. Elections are held yearly to select officers who provide for the cultural, academic and social needs of the students. ECSU sponsors Radio Erindale, a newspaper, ethnic clubs, concerts, lectures, and a pub, The Blind Duck. It is an organization that tries to stimulate student interest outside of the classroom, with programmes that are student-oriented and aimed to encompass the entire campus community and in some instances the local community of Mississauga. All undergraduate students of the College are members of ECSU and are entitled to attend meetings, sit on commissions and vote in the general election of officers to the Union.

ECSU is made up of a Board of Directors and a second body of student representatives. Elections for student representatives take place in the early spring.

Located in the Crossroads Building, ECSU is open all year around for the greater benefit of students. Telephone: 828-5249.

Student Publications and Media

Medium II, a weekly student newspaper focuses on campus and community events, news, reviews and features. It is located at the Margeson Hut beside the Crossroads Building. Telephone: 828-5260.

The Laomedon Review, a bi-yearly creative writing journal contains literary works which include poetry, prose, drama and criticism.

CFRE (Radio Erindale) is a closed circuit radio system broadcasting campus-wide from 8 a.m. to 10 p.m. from Colman Place. Telephone 828-5411.

All students are encouraged to assist in the successful operation of the above projects.

The Association for Part-Time Undergraduate Students

The Association for Part-time Undergraduate Students (APUS) represents all part-time undergraduate students at the University of Toronto. At Erindale College the APUS branch is called EPUS and is located in Room 137, North Bldg. (828-5422). The EPUS office is staffed fall and winter evenings from 6:30 - 8:30 p.m., Mon.-Thurs.

The Association works on a class representative system; an executive committee is elected annually from the Assembly of Representatives. APUS publishes a weekly newsletter, *Voice*, an annual *Handbook for U of T Part-Time Undergraduates*, and semi-annual Course Evaluations. For further information please call 828-5422 (see office hours above) or 979-2535 (Sessional office hours 9:00 a.m. - 9:30 p.m., non-sessional office hours 9:00 a.m. - 5:00 p.m.).

International Student Centre

The International Student Centre, 33 St. George Street (978-2564), provides a meeting place for students from Canada and abroad to come together in organized programmes or informal gatherings in a multicultural setting. The "International community" on the campus can find there ample opportunity to exchange ideas, to demonstrate their cultures, and to relax together.

There is no membership fee and all students, Canadian and foreign, graduate and undergraduate, are welcome to use any of the facilities at ISC, and to participate in its activities.

The Centre provides for a nominal fee, an English Language Programme for students requiring assistance in this area. The staff of the Centre can also advise on other English programmes available in Toronto.

The staff are also available to discuss with students any questions or concerns including immigration matters, and when necessary will refer them to the appropriate person or agency. The office of the Foreign Student Adviser is located in the Centre, as is the office of the Canadian International Development Agency Coordinator.

The Centre's International Work Study and Travel Information Service (**Interchange**) provides students and other members of the University with information about the wide range of opportunities available for experience abroad.

6

COURSES AND PROGRAMMES

Key to Course Descriptions

Students are urged to read the course descriptions completely and carefully paying particular attention to exclusions, prerequisites and corequisites. Some higher-series courses are available to first year students and are marked with a (I) in the margin. Others may also be open to first or second year students if no specific prerequisites or restrictive notes are indicated.

The course code (or identifier) is the group of three letters, three numbers and a final letter shown in the margin beside each course description. This code is used almost everywhere to speed identification of a student's programme.

The descriptions which follow refer to courses taught at Erindale College. "(G)" after the course code in the text indicates a course appearing *only* in the St. George calendar.

Course Designations

The 3-letter prefix normally indicates the Department or College responsible for the course. Where a department offers instruction in two or more disciplines, the designation indicates the discipline but the name of the department is stated below the heading, e.g. APM represents Applied Mathematics which is given by the Department of Mathematics.

The 3-digit number generally indicates the level of difficulty of the course: e.g. a 100-series number would normally indicate an introductory course.

The single letter suffix in this Calendar indicates the credit value only:

Y — a full course for which one credit is given

H — a half-course for which one-half credit is given

Z — a course for which no credit is given

Types and Duration of Instruction

L — Lectures

S — Seminars

P — Practical work in laboratories or studies

T — Tutorials

In the Winter Session the normal period of instruction in full courses ("Y" in the Calendar) is 26 weeks; for half courses ("H" in the Calendar) it is 13 weeks. The numbers preceding the instruction codes indicate the average number of instruction hours per week in the normal period e.g.: 2L, 2T indicates that the course has 2 hours of lectures and 2 hours of tutorials per week.

An appropriate adjustment in the number of instruction hours per week is made when a course is scheduled for a different period. The Timetable Section of the Calendar Supplement should be consulted for specific scheduling information.

Explanation of Symbols

- P.I. *Permission of the Instructor required*
 / *Means "or"*
 & *and the comma "," Means "and"*
 (I) *May be taken by first year students*
 (G) *St. George calendar course code*

Special Programmes at Erindale College

Erindale College — Sheridan College Combined Art and Art History

This is the first co-operative University and Community College programme in Ontario.

A main objective is to provide students with the academic background and the practical training necessary to become teachers of art in Ontario schools. Not all students entering the programme, however, will necessarily enter the teaching profession, and this has been considered in planning course content. The programme can also provide preliminary training for careers in galleries and museums, or can form the basis of a general art education.

Students must meet the admission requirements of Erindale College, which include a complete Grade 13 standing, as well as those of Sheridan College. They must submit separate applications to both institutions, and also must register in both places. They must make certain that their names are on a master list in the Registrar's Office, Division of Humanities. In order to be eligible for enrolment in a Sheridan Fine Art Studio course, one must be a full-time member of the Art and Art History Programme.

To obtain a B.A. degree at Erindale, 15 credits are required. Students in the Art and Art History Programme must take five credits in Studio Art at Sheridan College (FAS courses) and at least three credits in Art History at Erindale College (FAH courses). The graduates of the programme who take three-year degrees are eligible to enter the Type B Certificate course at the Faculty of Education of the University of Toronto. To be eligible for the Type A Certificate, the student must complete a four-year B.A. with additional work in Fine Art. (Candidates interested in becoming teachers are urged to consult the Calendar of the Faculty of Education, and to seek advice there, at an early stage of their academic careers.)

Bus transportation between the two colleges is available at a small charge. Students should realize that the greater amount of work will be done at Erindale College and, therefore, should plan their programmes and accommodations accordingly.

For course descriptions, see the listing for Fine Art under "Subjects and Courses."

If further information is required, please contact the Office of the Registrar, Division of Humanities, Erindale College.

Survey Science Programme

In 1972, Erindale College inaugurated a 20-course programme of study in Survey Science that is unique in Ontario and one of only three university programmes in professional surveying in the entire country.

The programme has approval and full support of the Association of Ontario Land Surveyors. It satisfies the academic requirements of the Association for professional O.L.S. (Ontario Land Surveyor) registration under Regulation 35/73 of The Surveyors Act.

Although the primary objective of the Survey Science Programme is to prepare students for entry into the practice of surveying in Ontario at the professional level, it also provides a strong university education in surveying for students who expect to practise professional surveying outside the province.

In pursuing the Survey Science Programme, the student is required to take a prescribed set of core courses which constitute 75% (15 full courses) of the total programme. The remaining 25% (5 full courses) of the programme is composed of elective courses selected from a broad range of course offerings in accordance with the student's individual interests.

Students may enter the Survey Science Programme in the first or second year of undergraduate study. First-year students with good academic standing are eligible to take SUR200Y, and are strongly advised to do so if they plan to pursue a complete programme. MAT132Y and PHY110Y/118Y/135Y/140Y should also be taken in the first year of study.

Details of courses offered will be found under Survey Science in the section on Subjects and Courses.

For further information, students should contact the faculty advisor, Professor G. Gracie — 828-5299.

Thematic Programmes

Canadian Studies

Faculty Advisor: Professor J. Dutka

"The most valid and compelling argument for Canadian Studies is the importance of self-knowledge, the need to know and to understand ourselves."

The Canadian Studies Programme at Erindale offers both a specialist and a minor concentration drawn from courses in Anthropology, Commerce, Economics, English, Fine Art, French, Geography, History, Philosophy, Political Science and Sociology. Interdisciplinary in nature, the programme is nonetheless designed so that students can fulfill entrance requirements of the Faculty of Education or the School of Graduate Studies by a careful selection of courses in other areas. Students wishing to complete a specialist or minor certification in Canadian Studies must notify and register with the Faculty Advisor.

Specialist Programme

Eleven courses are required:

a) In the first and second years:

- 1) HIS262Y (Canada, 1663-1970)
- 2) POL100Y (Introduction to Canadian Politics)
- 3) ENG252Y (Canadian Literature in English)
- 4) FRE161Y/FRE171Y (or, if an exemption is granted, a course in French Canadian literature in the original language)

b) In the third and fourth years:

- 5) GGR245Y (Urban Canada) or SOC220Y (Canadian Society)
- 6) INE401Y (a major research paper)
- 7) INE402Y (Interdisciplinary Seminar in Canadian Studies)
- 8-11) Four courses with a disciplinary, thematic or chronological coherence chosen, with the approval of the coordinator of the programme, from the list of approved courses offered on either the Erindale or the St. George Campuses.

Minor Programme

Seven courses are required:

- 1) HIS262Y (Canada, 1663-1970)
- 2) POL100Y (Introduction to Canadian Politics)
- 3) ENG252Y (Canadian Literature in English)
- 4) FRE161Y/FRE171Y (or, if exemption is granted, a course in French Canadian Literature in the original language)
- 5) GGR245Y (Urban Canada) or SOC220Y (Canadian Society)
- 6-7) Two courses chosen from those approved for the Specialist Programme, both of which must be at the 300-400 level.

For course descriptions of INE401Y and INE402Y, see under St. George Street, or telephone 978-4444 or 978-2411.

Students may also be interested in the minor programme in Literatures and Languages in Canada, administered through New College, but open to Erindale students. For further information, consult the Faculty Advisor.

A Concentrated Programme in the Humanities Leading to a Bachelor of Arts Degree

Faculty Advisor: Professor R.L. Beck

Well-qualified and highly-motivated students seeking a thorough grounding in the Humanities before proceeding to further professional or academic training may be eligible for Erindale's concentrated programme in the Humanities, leading to a fifteen-credit B.A. in two years.

Students seeking admission to this programme must have a Grade 13 (Ontario) final average of 72% or the equivalent. Students may also apply for the programme at the end of their first winter session provided that they have completed five full courses with a GPA of 2.5.

Students are expected to complete fifteen courses during the winter and summer sessions. They may take a maximum of two courses each summer and a maximum of six courses during the winter session. To qualify for the programme, they must undertake no part-time employment during the duration of their academic programme except if and when taking a single course during the summer session.

To secure a well-rounded preparation in the Humanities, a student will be expected to:

- (a) complete the requirements of the Erindale curriculum including a minor concentration and a course in each of the Divisions of Sciences and Social Sciences.
- (b) complete at least one credit in each of the following:
 - (1) a language
 - (2) a course in literature or art
 - (3) a course in history
 - (4) a course in philosophy or religion
 (For the distribution of these courses among disciplines, consult the advisor.)

In the final session, a course consisting of an individual research project under supervision may be undertaken. A student admitted to this special programme will be assigned a faculty advisor who will assist in developing the programme of study and in guiding the student's academic progress.

Urban Studies

Faculty Advisor: Professor G. Gad

These flexible programmes give students the opportunity to study urban problems from an interdisciplinary perspective. Students are urged to consult the Urban Studies Faculty Advisor for programme planning and for advice about the variety of possible course sequences. (Please make appointments through the Urban Studies secretary, Room 2095, Telephone 828-5314.)

Specialist Programme

Ten courses are required in a programme of at least 20 courses. One of these courses must be a methodology course (see under 1 below).

1. Methodology: *one* full course equivalent of the following:
ECO220Y/GGR202H and GGR212H/SOC201Y/STA202H and STA212H/STA242Y.
- 2 Options: *eight* full course equivalents chosen from at least *three* of the following groups. (Not more than five full course equivalents from one group.)
ECO333Y
FAH211H, 256H, 335H, 365H, 412H
GGR245Y (formerly 241Y), 250Y, 324H, 340Y, 346H, 349Y, 352H (formerly 365), 354H, 441H
POL221H, 308Y, 413Y
SOC205Y, 312Y, 328H, 340Y, 345Y, 422H, 423H

Minor Programme

Six courses are required in a programme of at least 15 courses. These courses must be chosen from at least three of the five groups of courses listed under "options" above or of the seven groups listed under "options" in Note 2. (Not more than three courses from one group may be counted.).

- Notes**
- 1) Other courses not listed above may be included with the permission of the Urban Studies Programme Committee.
 - 2) The following courses offered at the St. George Campus may also be counted towards specialist or minor certification:
 1. Methodology courses: ECO220Y / FAH100Y / GGR270Y / HIS102Y / POL429Y / SOC201Y / STA222Y/242Y/252Y.
 2. Options:
ECO333Y, 411H, 412H, 418, 334H
FAH211H, 256H, 258H, 265H, 285H, 311Y, 400H, 412H
GGR124Y, 210Y, 243Y, 323H, 324H, 325H, 326H, 328H, 33k6H, 337H, 338H, 339H, 350H, 357H, 359H, 360H
HIS365Y, 418Y, 462Y, 463Y, 475Y
INI206Y, 231Y, 233Y, 334Y, 335Y, 336Y, 430Y
POL221H, 308Y, 413Y, 418Y
SOC205Y, 210Y, 304Y, 312Y, 345Y, 443Y, 444Y

Study Elsewhere Programme

The faculty has intended the Study Elsewhere Programme for students who have completed a minimum of 9 credits and who intend to attain a degree of specialization in their further studies. The Committee, therefore, requires participants of the Programme to have completed a minimum of three courses in a discipline or in the area of study which they intend to pursue elsewhere.

Full information concerning this programme can be obtained from Dr. L.T. McCormick, Registrar, Division of Humanities, Erindale College (828-5244), the St. George Campus Calendar, and the Secretary of the Committee, Miss E. Ishibashi (978-3387).

Each student authorized to participate in the Study Elsewhere Programme must pay a fee of \$100.00 to the Comptroller and present his receipt to his College Registrar prior to departure.

Summer Programme in Europe

In addition to the Summer Session on the St. George Campus, Woodsworth College offers University of Toronto courses at two locations in Europe. In cooperation with the University of Siena, courses in Italian language, literature and culture are offered in Siena, Italy. French language, literature and civilization courses are offered in Strasbourg, France in cooperation with the University of Strasbourg.

The programme offers North American students the opportunity to live and study in a social and cultural milieu different from their own. This experience increases the student's appreciation of the language, literature, and civilization of France or Italy.

The courses offered at Siena and Strasbourg are listed in the Calendar Supplement. For additional information, contact Woodsworth College, 119 St. George Street, or telephone 978-4444 or 978-2411.

Programmes of Study

Specialist and or Minor programmes are available at Erindale in the following subject areas; for details, see the relevant departmental essay:

Anthropology	Geography
Astronomy	Physical Environmental
Biology	Canadian Studies and Geography
Chemistry	Urban Studies and Geography
Chemistry and Biochemistry	History
Chemistry (with Physics)	Italian
Classics	Mathematics
Commerce	Mathematics and Philosophy
Computer Science	Mathematical Sciences
Computer Science for Data Management	Philosophy
Drama	Physics
Earth and Planetary Sciences	Political Science
Geology	Psychology
Geology and Physics (Geophysics)	Interdisciplinary Programme in Animal Behaviour
Chemistry and Geology	Religious Studies
Economics	Russian Language and Literature
Economics and Political Science	Sociology
English	Spanish
Fine Arts	Statistics (Applied)
French	Survey Science
German	

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DETAILS OF COURSES

ANTHROPOLOGY

Faculty Advisor: Professor F.J. Melbye

Anthropology is the study of human biology and culture and the interaction between the two. *Physical Anthropology* focuses on the evolution of man and his nearest primate relatives, revealed by fossil remains, and on the constitution, physiology and variation of living populations. *Cultural Anthropology* is the study of the way of life of peoples throughout the world: technologies, economies, societies, languages, and value systems; the functional interrelationships of these; and the relationship between culture and environment. Physical remains of the activities of populations no longer extant (e.g., habitations, tools, food remains) are investigated by archaeological techniques to reconstruct the cultures of the past and to trace their development from earliest time. Conclusions are drawn about the interaction of cultural and physical processes.

The Anthropology programme offers the student the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods of physical and cultural anthropology and to involve them in the research programmes of the department. Students planning an anthropology concentration should consult faculty members for advice.

Anthropologists are employed as faculty in universities and colleges, as researchers in museums, and by government. For additional information see *Anthropology as a Career* by Wm. C. Sturtevant, available at the Erindale College Library.

The following Anthropology courses are considered as Science courses: ANT203Y, 228H, 229H, 231H, 328H, 330H, 332Y, 333H, 334Y, 336H, 338Y, 339H, 430Y, 433H, 434H.

Specialist programme

9 courses are required in a programme of at least 20 courses:

ANT100Y

ANT203Y, 204Y, 226Y, and at least one of ANT207H, 228H, 231H, and any other courses in Anthropology.

Minor programme

6 courses are required in a programme of at least 15 courses:

ANT100Y

ANT203Y, 204Y, 226Y and any other courses in Anthropology

NOTE: *Specialists may receive B.A. or B.Sc.(See Degree Requirements)*

- ANT100Y Introduction to Anthropology** 2L, 1T
A survey of the field of anthropology includes physical anthropology, archaeology, linguistics and social anthropology. Physical anthropology will explore human origins and adaptations. Archaeology outlines the development of human culture from earliest stone tools to the development of civilization. Anthropological linguistics searches for the relationship between language and culture. Social anthropology examines diversity and similarity in contemporary cultures.
- ANT201Y North American Prehistory** 2L
(I) A survey of culture history from the first appearance of man in North America until the coming of the Europeans. Selected readings provide the broad outline; lectures will discuss methods of analysis and offer detailed summaries of the evidence of selected sites and their interpretation.
- ANT203Y Physical Anthropology** (Formerly ANT230Y) 2L, 1T
(I) A survey of the field of physical anthropology. Topics will include human evolution and paleontology, skeletal biology, human genetics and variation, human growth, primatology and human adaptation.
- ANT204Y Social and Cultural Anthropology** (Formerly ANT206Y) 2L, 1T
(I) A general course emphasizing social and political organization, economics, and the development of theory. Religion, Art, and Technology are not part of the course content; the interested student is referred to ANT209Y (Religion in Culture), ANT210Y (The Anthropology of Art), and ANT305Y (Technology, Society and Culture).
- ANT207H Introduction to Ethnographic Field Techniques** 2L, 1P
(I) Lectures on ethnographic field techniques; survey description and comparison of types and functions of the "oral literature" of various culture areas. Student project: field work in modern folklore.
- ANT209Y Religious Behaviour and Systems of Thought** 2L, 1T
(I) A comparative view of myth, ritual and philosophical systems with emphasis on the religion of non-literate peoples.
- ANT210Y The Anthropology of Art** 2P
(I) Comparative approaches to art and aesthetics in world cultures and the meaning and function of art in specific cultural contexts.
- ANT212Y Traditional and Contemporary African Cultures** 2L
(I) Survey of traditional African cultures and institutions, and the changes involved in current movement toward industrialization.
- ANT213Y Archaeology of Latin America** 2L
(I) Prehistoric and early historic development and characteristics of complex cultures of Central and South America.
- ANT226Y Old World Prehistory** 2L
(I) Earliest evidence for human culture; development differentiation and diffusion of cultures in the Old World through the last 2,000,000 years. Interpretation of man's cultural adaptations from material remains of that behaviour.
- ANT228H Archaeological Fieldwork** (Formerly ANT228Y) 2P
Practical field experience on a prehistoric archaeological site from August 19 to August 31 and weekly evening meetings until December. *Prerequisite:* P.I.
- ANT229H Archaeological Laboratory Analysis** 1L, 2P
(I) Analysis and description of archaeological material. *Prerequisite:* ANT228Y and P.I.
- ANT231H Laboratory Methods in Physical Anthropology** 2P
(I) Recommended for those who may specialize in anthropology. The student will be guided in basic laboratory procedures on specific topics as they are discussed in the survey course. *Corequisite:* ANT203Y.

- ANT241Y **Indians of North America** (Formerly ANT217Y) 2L
(I) A survey of native cultures and discussion of the role of environmental and historical factors.
- ANT242Y **Modern Cultures of Canada** 2L
A survey of the history, distribution, and nature of Canada's ethnic communities. *Prerequisite:* ANT204Y or P.I.
- ANT304H **Change in Canadian Indian Societies** (Offered in alternate years) 2L
A seminar course examining the application of such concepts as "acculturation", "adaptation" etc. to Canada's changing native population. *Prerequisite:* ANT206Y or ANT217Y, and P.I.
- ANT305Y **Technology, Society and Culture** 3P
The role of technology in social and cultural change and adaptation, including an introduction to basic techniques and their historical development.
- ANT319H **Problems in the Study of North American Indians** (Offered in alternate years) 2L
The literature and study of North American Indians; lecture and discussion of topics such as environmental relationships, demography, religious movements, cultural ecology, commercial and communication networks; individual research on a topic chosen in consultation with the instructor; ANT397H may be taken concurrently to accommodate particularly ambitious research papers. *Prerequisite:* A mark of 65 or higher in ANT217Y (formerly ANT241Y) or Permission of Instructor.
- ANT324H **Archaeological Interpretation** 2T
A survey of methods and ideas about the reconstruction of the past from the archaeological record including subsistence, population, social organization, religion, settlement plan and organization, etc. *Prerequisite:* ANT228F, 221S/ANT201Y/ANT226Y and P.I.
- ANT327H **Origins of Food Production** 2L
Examination of the history of food production in the Old and New World, and its significance to human civilization. *Prerequisite:* ANT201Y or ANT226Y.
- ANT328H **Advanced Archaeological Fieldwork** 2P
Conducted concurrently with ANT228Y. Instruction in archaeological field techniques, laboratory preparation, supervision of field and laboratory work. *Prerequisite:* ANT228Y and P.I.
- ANT330H **The Biology of Sexual Differences** (Offered in alternate years) 2L
An exploration into the bases of human sexual differences, considering both genetics and environment. *Prerequisite:* ANT203Y and P.I.
- ANT332Y **Human Origins** 2L, 1P
A survey of human palaeontology and the evolutionary stages through which man passed in becoming *Homo sapiens*. *Prerequisite:* ANT203Y.
- ANT334Y **Skeletal Biology** 1L, 2P
Includes the method and technique of recovering, preserving, recording and analysing skeletal remains. The human skeleton will be studied in detail, and practical experience will be offered in the analysis of a skeletal population. *Prerequisite:* ANT203Y or P.I.
- ANT336H **Human Heredity, Evolution and Variation** 2S
The principles of human population genetics, evolution, and diversity are related to current events. *Prerequisite:* ANT203Y, 231H, and P.I.
- ANT338Y **Primate Biology** 3P
An introduction to the biology of non-human primates, including the study of soft skeletal anatomy of representatives of different taxa of extant primates. *Prerequisite:* ANT203Y and P.I.

- ANT339H **Human Adaptability** 2L
A survey of the nature and range of biological variation in modern man. *Prerequisite:* ANT203Y and P.I.
- ANT397H **Independent Study**
Supervised reading on selected anthropological topics. *Prerequisite:* Permission of Faculty Advisor.
- ANT398Y **Independent Reading**
Supervised reading of selected anthropological topics. *Prerequisite:* Permission of Faculty Advisor.
- ANT399Y **Independent Research**
Supervised research in anthropology. *Prerequisite:* Permission of Faculty Advisor.
- ANT430Y **Special Problems in Physical Anthropology**
Supervised independent research in Physical Anthropology for students requiring science credit. *Prerequisite:* P.I.
- ANT433H **Palaeodemography** (Offered in alternate years) 2S
The study of prehistoric human population. The course will explore aspects of mortality and life span in relation to age and sex ratios of human populations. *Prerequisite:* ANT334Y or P.I.
- ANT434H **Palaeopathology** (Offered in alternate years) 2S
The study of diseases of ancient populations, and the detection and interpretation of human skeletal pathology. Four facets are: 1) the comparison of populations, 2) the influence of disease on culture, 3) the temporal and geographical distribution of diseases, 4) clinical uses of the data. *Prerequisite:* ANT334Y or P.I.
- ANT490Y **Seminar on the History of Anthropological Theory and Method** 2S
(Offered in alternate years)
Prerequisite: P.I.
- ANT499Y **Advanced Independent Research** T
For students whose original research is leading toward a publishable report. *Prerequisite:* Permission of Faculty Advisor.

APPLIED MATHEMATICS

(See Mathematics)

- APM251Y **Applied Mathematics I** 2L, 1T
Ordinary differential equations of the first order. Higher order linear differential equations and systems, infinite series, laplace transforms, lagrangian dynamics, applications. *Exclusion:* MAT244H, 214H, 219H, 235Y. *Prerequisite:* MAT134Y(C or better)/139Y. *Corequisite:* MAT239Y.
- APM311H **Partial Differential Equations** 2L, 1T
Partial differential equations of applied mathematics, mathematical models of physical phenomena, basic methodology. *Exclusions:* APM351Y, 331H(G), 346H(G). *Prerequisite:* MAT235Y/MAT239Y and 214H.
- APM336H **Mathematical Models in the Social Sciences** (Offered in alternate years) 2L, 1T
Illustrative mathematical models in the behavioural sciences, psychology, sociology, economics and political science. Some acquaintance with differential equations, matrix algebra and probability theory is advisable. *Corequisite:* MAT234Y/235Y/239Y/230Y(G)/250Y(G).

- APM351Y **Applied Mathematics II** 2L, 1T
 Hyperbolic, parabolic, elliptic partial differential equations, separation of variables, eigenfunction expansions, integral transforms, Green's functions, examples drawn from Physics and Engineering. *Prerequisite:* APM251Y.

ASTRONOMY

Faculty Advisor: Professor J. R. Percy

Astronomy, the "Queen of Sciences", is wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and universe; the origin of life on earth and elsewhere; the behaviour of matter in varied environments and, in general, the influence of our ideas of the universe on man's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education.

Three introductory courses are offered at Erindale. AST100Y is a course in which students can learn about the universe even though they do not have a scientific bent. The course is largely descriptive, and covers the full range of astronomical topics. AST200H is also designed for students whose principal interests are non-scientific, particularly students who wish to limit themselves to a half course. This course attempts to present up-to-date topics in some detail, and to answer often-asked questions. Since this course is given *in the evening*, it is of particular interest to part-time students.

For students who are more interested in the sciences, AST120Y provides a deeper insight into the physical nature of planets, stars and galaxies, and also provides some understanding of the tools and methods used by the astronomer.

AST250Y is a unique interdisciplinary course which examines the broad topics of the nature of life, its origin and evolution on earth, and its possible existence elsewhere in the universe. It is intended for students who have some background in the behavioural, biological or physical sciences, either in grade 13 or in university.

At a more advanced level, AST310H and AST320H may be taken together or separately. They are intended for students with a serious interest in science (mathematics, physics, astronomy, space science or earth and planetary sciences), but require no previous introduction to astronomy.

Students who wish to *specialize* in Astronomy and Astrophysics should consult the Astronomy Faculty Advisor at Erindale.

- AST100Y **Introduction to Astronomy** 2L, 1T(A)
 A general survey of modern astronomy which gives a descriptive treatment of the nature of planetary and stellar systems and the present conception of the structure of the universe. This course is intended for students with no science background or those who do not intend to specialize in science. It is not open to students who are currently enrolled in or have completed a 100 or higher-series course in physics or a 200 or higher-series course in chemistry. *Exclusion:* AST120Y/200H.

- AST120Y **A Survey of Astronomy and Astrophysics** 2L, 1T
 A general survey of astronomy in which concepts in basic physics are applied to a treatment of the solar system, stars and stellar systems, and the structure of the universe. This first-year course is intended for students who already have some background in science or those who are currently enrolled or in the future will be enrolling in science courses. *Exclusion:* AST100Y/200H. *Prerequisite:* Grade 13 MAT R & F, Grade 13 PHY.

- AST200H The Universe - an Appreciation** 2L
(I) A topical course in astronomy designed for students in disciplines other than the sciences. The emphasis will be on fields of current interest in astronomy with the aim of interpreting recent and forth-coming developments. This course is not available to students who are enrolled in or have completed a 200 or higher-series course in physics or chemistry. *Exclusion:* AST100Y/120Y.
- AST250Y Life on Other Worlds** 2L
Several questions of broad relevance to the biological and physical sciences will be critically examined: nucleosynthesis - the origin of the atomic elements; formation of complex molecules in astronomical environments; the origin of planetary systems, and their nature and evolution as possible abodes for life; the nature of life and life processes; the search for life through planetary exploration and interstellar communication. *Exclusion:* NEW250Y(G). *Recommended preparation:* A basic knowledge of physical and/or biological science.
- AST310H Solar System Astrophysics** (Offered in alternate years) 2L
The physical nature of the sun, planets, satellites and other constituents of the solar system. Their motion, structure, origin and evolution. This course is intended for students specializing in the mathematical, physical or earth sciences. *Exclusion:* AST321H(G). *Prerequisite:* P.I.
- AST320H Stellar Astrophysics and Cosmology** (Offered in alternate years) 2L
Current theories of the structure and evolution of the stars, with attention given to the final stages of evolution, such as white dwarfs, neutron stars and black holes. Modern theories of the universe, and their observational basis. This course is intended for students specializing in the mathematical, physical or earth sciences. *Exclusion:* AST322H(G). *Prerequisite:* P.I.
- AST425H Research Topic in Astronomy**
Consists of a research report by the student in consultation with an individual staff member in the department. Students must enrol with the faculty advisor of the department on the Erindale Campus. *Corequisite:* AST420Y(G).

BIOLOGY

Faculty Advisors: Professors J. Ammirati and G.K. Morris

Biology is the science of living organisms - their kinds and relationships, origins and evolution, structure and development, and their functions and mutual relationships in the environments in which they occur. Biology relates to such major human problems as starvation, overpopulation, conservation, pollution, and to the whole field of medicine and disease. Living organisms may be studied from a variety of viewpoints such as biochemical, physiological, ecological, genetical, taxonomical, structural, and developmental, and from a variety of organizational levels from populations and individuals through organs, tissues, cells, and organelles, down to molecules.

Botanists, microbiologists, and zoologists at Erindale cooperate closely in organizing courses and programmes in Biology which stress the relationships of living organisms in terms of structure, form, function and environment at many levels of organization.

There is a variety of alternatives available to students of Biology. A student can, by completing the Specialist Programme in Biology presented under Programmes of Study, obtain a four-year Bachelor of Science degree with the designation "Biology Specialist" on the transcript. Students who intend to become high school Biology teachers can, by taking the 8 core Biology courses listed under Programmes of Study plus one additional full Biology course, meet the requirements for a Type A Certificate from the Ontario Department of Education. By taking 8 courses from the selection outlined below, students may also satisfy the requirements for a Minor Programme in

Biology. This minor programme can be conveniently combined with a second minor programme from another discipline. Finally, students may elect to carry out an interdisciplinary (Biology-Psychology) specialist programme in Animal Behaviour. Successful completion of the courses listed (see Psychology) will be recognized by the designation "Animal Behaviour Specialist" on the transcript. Students selecting courses in Biology as part of their Animal Behaviour Specialist programme must achieve a standing in those courses consistent with that specified for the Biology Specialist Programme. Staff will assist students in organizing appropriate groups of courses to accommodate specialized interests. Students following the Biology Specialist or Minor Programmes must officially register for these programmes. This should be done by the beginning of their second year. Registration forms are available at the Registrar's Office, Room 2122.

Erindale 100 and 200 level BIO courses (and BIO360H - 361H) will be treated as equivalent to corresponding St. George campus courses in satisfying requirements for the following St. George specialist programmes: Biology and Mathematics, Biology and Physics, Microbiology, Nutrition and Food Science, Paleontology, Pharmacology, and Physiology. Students who intend to begin these programmes at Erindale should consult a Biology advisor as early as possible.

Because of high demand and space limitation, it may be necessary to limit enrolment in some Biology courses. In these cases only those students who obtain the highest grades in the prerequisite courses will be enrolled.

Specialist programme

This core is designated for students desiring a degree which reflects a good, sound education in all aspects of Biology. The Programme leaves open a number of options for students interested in more specialization. Those who complete the core programme and a carefully selected group of options will be qualified for graduate studies in most areas of Biology, and for employment opportunities specifying an undergraduate degree in Biology. Students must obtain at least 60% in each Biology course of 200 level and above (including CHM240Y and BIO course substitutes), and a minimum average of 70% in the last 12 courses of the specialist programme in order to qualify for the designation "Biology Specialist" on their transcripts.

16 courses are required in a programme of at least 20 courses:

BIO100Y; CHM118Y/150Y; MAT132Y/138Y; PHY118Y/140Y

BIO230H, 241Y, 250Y, 251Y, 270Y; CHM240Y

BIO320Y/321Y/370Y, BIO340Y, 360H

Four BIO courses

1) *Of the remaining 4 options available (20 credit programme) one must be a course offered by the Division of Humanities and one must be a non-Biology course from the Division of Sciences or Social Sciences. Courses in cognate studies such as Computer Science, Physics, Chemistry, Earth and Planetary Sciences and Psychology are recommended as valuable non-Biology options and may also be used as substitutes for not more than two Biology options. Students should consult with the faculty advisors before registration if they wish to substitute a non-Biology course for a Biology option.*

2) *Environmentally-oriented students should consider including BIO235Y (Field Biology) in their first year programme.*

The curriculum can be taken in any order allowing for prerequisite requirements. Some 200 level courses could be delayed until Year 3 or 4 in order to take certain options earlier in the programme. However, associated timetabling problems may arise and the student is cautioned to carefully plan his programme, in consultation with Biology staff for all four years at the outset.

Students must obtain at least 60% in each Biology course of 200-level and above (including CHM240Y and BIO course substitutes), and a minimum average of 70% in the last 12 courses of the specialist programme in order to qualify for the designation "Biology Specialist" on their transcripts.

Minor programme

8 courses are required in a programme of at least 15 courses:

BIO100Y; CHM118Y/150Y; MAT132Y/138Y

BIO(230H & 231H)/241Y

Two of BIO250Y, 251Y, 270Y

Two of BIO320Y, 321Y, 340Y, 370Y

To receive the designation "Biology Minor" on their transcripts, students cannot receive a mark lower than 60% in any of the 200 level and above BIO courses, and must attain an average mark of at least 70% in those courses.

- BIO100Y The Study of Life** 2L, 3P
Presents an integrated study of life at several levels: molecular, cellular, organismal, and social. Topics include ecology, phylogeny, behaviour, physiology, cell biology, heredity, evolution, and development. Practical sessions will introduce a wide range of biological material and techniques; tutorials will help integrate laboratory and lecture.
- BIO130Y Man and Environment** (Same as GGR173Y) 2L, 1T
Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. Solutions to problems of current environmental concern - water pollution, heavy metals, nuclear power and noise will be considered with special reference to North America. *Exclusion:* GGR173Y.
- BIO230H Ecology I** 2L, 3P
An introduction to ecological principles. The composition, structure and environments of natural ecosystems will be surveyed. Laboratory work will emphasize field investigations of communities in the immediate region. *Prerequisite:* BIO100Y. *Recommended preparation:* BIO235Y.
- BIO231H Ecology II** 2L, 3P
A continuation of general ecological principles, specific studies of succession, competition, predation, and dynamics of populations and communities. Laboratory sessions will deal with ecological sampling techniques, experimental ecology and population studies. *Prerequisite:* BIO230H.
- BIO235Y Field Biology** 2T, 3P
(I) A field and laboratory course to acquaint the student with plants and animals in the local environment. Collection techniques and observation are emphasized in the field. Identification of major groups of animals and plants is studied in the laboratory. Students will be required to make a collection of some group of organisms.
- BIO241Y Cell Biology** 2L, 3P
Cell structure and function. Cell organization at the organelle and molecular level will be considered in bacterial, animal, and plant cells. Topics include the structure and function of membranes, nuclei, mitochondria, plastids, and other organelles. In the laboratory the student will become familiar with current techniques of cell biology. Enrolment limited. *Prerequisite:* BIO100Y.
- BIO250Y Plant Form and Function** 3P, 2L
A survey of the major plant groups from the higher algae up to the Angiosperms. The structure and life history of representatives are examined, including discussions of the functions of the major tissues and organs. The evolution of plants is discussed with particular reference to fossils. *Prerequisite:* BIO100Y/P.I.
- BIO251Y Animal Form and Function** 2L, 3P
The "design" and adaptive consequences of vertebrate and invertebrate structures are examined. Mechanisms of prey capture, feeding, transport, gas exchange, body support, locomotion, and sensory perception are compared at the organ level. The student is encouraged to see beyond description in order to develop an appreciation of the adaptiveness of body parts. *Prerequisite:* BIO100Y.
- BIO270Y Biology of Protista** 2L, 3P
A survey of the major groups of microorganisms including bacteria, viruses, protozoa, lower algae and fungi. The structure and life history of representative organisms are examined. The importance of the biology of microbes will be discussed especially with regard to ecology, pathogenicity and the scientific impact of studying certain "Microbial model organisms" in elucidating important basic principles in biology. *Prerequisite:* BIO100Y.

BIO300H Terrestrial and Freshwater Biology

This course will be offered at the Leslie M. Frost Natural Resource Centre, near Dorset, Ontario. Emphasis will be on principles and methods in plant and animal ecology, and gaining familiarity with local flora and fauna. Terrestrial and freshwater ecosystems will be studied. Opportunity will be provided for students to undertake projects of their own. Students are selected on the basis of their academic background, grades, and career goals. The course is given in the two week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Applications must be received by Erindale Biology Faculty Advisors before March 31st. Students selected will be notified promptly. Application forms are available from J. Ammirati. Enrolment limited. *Prerequisite:* BIO100Y.

BIO301H Marine Biology

A field course in Marine Biology, at St. Andrews, New Brunswick, consisting of informal lectures and seminars with intensive field and laboratory work. Different marine habitats are examined in detail and the animals and plants associated with them are classified. Students carry out projects in which they are encouraged to develop their own ideas and interests. Lectures on special topics are given by the scientific staff of the Biological Station. Students are selected on the basis of their academic background grades and career goals. The course is given in the two-week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Application forms are available from J. Ammirati. Enrolment limited. *Prerequisite:* BIO100Y.

BIO302H Arctic Ecosystems I

Summer field studies at Churchill, Manitoba, of approximately two weeks duration dealing with botanical, zoological, or other aspects of arctic ecosystems or any combination of the above. *Prerequisite:* BIO100Y and approval by Undergraduate Secretary of Botany or Zoology at the St. George campus.

BIO303H Arctic Ecosystems II

A second summer field course at Churchill, Manitoba, like BIO302H. *Prerequisite:* BIO302H and approval by Undergraduate Secretary of Botany or Zoology at the St. George campus.

BIO320Y Plant Physiology

2L, 3P

The principal physiological processes, and the influence of environmental factors on them, will be studied in plants. Topics will include water relations, mineral nutrition, translocation, photosynthesis, respiration, general metabolism, and growth and development. *Prerequisite:* BIO100Y, CHM118Y/150Y/P.I.

BIO321Y Animal Physiology

2L, 3P

A comparative approach to the study of physiological processes in animals (including man), with emphasis on the understanding of underlying principles. Topics include respiration, excretion, osmoregulation, ionic regulation, and the physiology of muscle and nerve. *Prerequisite:* BIO100Y, CHM118Y/150Y/P.I. *Recommended preparation:* PHY118Y/140Y.

BIO322H Animal Behaviour I: Social Factors

2L, 3P

What animals do in responding to other organisms is considered from the viewpoint of the biologist. Students learn to describe and classify behaviour patterns and to interpret their immediate causes. Causal analysis involves a consideration of both external and internal state. Instinct is contrasted with the animals' ability to modify its behaviour during its lifetime. The relevance of evolution to the study of behaviour is emphasized. *Prerequisite:* BIO251Y/P.I.

BIO323H Animal Behaviour II: Physical Factors

2L, 3P

The responses of animals, largely invertebrates, to light, temperature, moisture, etc., both in the laboratory and in the field, as well as the consequences of their behaviour are discussed. Arthropods, typically, are used in prescribed and student-designed experiments in the laboratory to illustrate a variety of these responses. *Prerequisite:* BIO251Y/P.I.

- BIO330Y Plant Ecology** 2L, 3P
The relationships of plant species, populations, and complexes at the sociological, environmental, and physiological level. Practical field work, laboratory studies, and experimentation are included. The course provides a background for practical training in conservation and environmental research. *Prerequisite:* BIO230H/P.I. *Recommended preparation:* BIO235Y.
- BIO332Y Freshwater Biology** 2L, 3P
A functional analysis of aquatic ecosystems. Lecture topics include: physical environments of lakes and streams; determinants of productivity of algae, zooplankton, fish and benthos; determinants of species structure of each of these groups; the process of eutrophication. In the laboratory, aquatic measurement techniques and taxonomy and ecology of local plants and animals will be emphasized. One two-day and two one-day field trips required. Enrolment limited. *Prerequisite:* BIO230H.
- BIO333H Ecology of Forest Insects** 2L, 3P
With forest insects as examples, the characteristics of insects and their responses to the biotic and weather factors that influence their success, are discussed. The impact of insect outbreaks on forests, using case histories, is considered. In the laboratory recognition of various stages in the life history of forest insects and the characteristics of their attack on trees are stressed. *Prerequisite:* BIO100Y/P.I. *Recommended preparation:* BIO230E(1975-76)/BIO230H, 231H.
- BIO334H Mycology: Lower Fungi** (Alternates with BIO335H) 2L, 3P
A study of the lower fungi including the slime molds, water molds, downy mildews, white rusts, bread molds and imperfect fungi. With emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory exercises will deal with representative genera of these fungi and include methods for their isolation and culture. Field work included. *Prerequisite:* BIO100Y, 270Y (BIO250Y recommended).
- BIO335H Mycology: Higher Fungi** (Alternates with BIO334H) 2L, 3P
A study of the higher fungi (yeasts, powdery mildews, black molds, cup fungi, morels, mushrooms, polypores, etc.) and lichens. With emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory exercises will deal with representative genera of these fungi and include methods for their isolation and culture. Field work included. *Prerequisite:* BIO100Y, 270Y (BIO250Y recommended).
- BIO340Y Genetics** (Formerly BIO240E) 2L, 3P
Presents current concepts in genetics with examples drawn from microbes, plants, animals, and viruses to illustrate: the molecular structure of the gene, mechanisms of gene action and gene regulation, levels of genetic organization, basic population genetics, and genetic aspects of evolution. Practicals will include both plant and animal material used in directed and independent experiments although the major emphasis will be on *Drosophila*. *Exclusion:* BIO240E(1974-75). *Prerequisite:* BIO100Y (BIO241Y recommended). *Corequisite:* BIO241Y.
- BIO351Y Invertebrate Form and Function** 2L, 3P
Structural adaptations of invertebrate animals. Laboratories stress dissection and observation; living material is used wherever possible. Students become familiar with those structural features that form the basis of phylogenetic classification. *Prerequisite:* BIO251Y.
- BIO352Y Developmental Biology** 2L, 3P
A study of the important developmental events in plants and animals, including: gamete formation, fertilization and organogenesis. Emphasis is placed on all levels of development from the molecular to organismic. Laboratory exercises stress the dynamic aspects of development by frequently using live material. *Prerequisite:* BIO100Y, BIO241Y.

- BIO354H Vertebrate Form and Function** 2L, 3P
A continuation in greater depth of vertebrate topics begun in BIO251Y, with special emphasis upon morphological aspects of adaptation relative to function. Individual laboratory projects on selected vertebrates. *Prerequisite:* BIO251Y.
- BIO355H Taxonomy of Vascular Plants** 5P
A survey of the flora of Ontario. The emphasis of the course is on the practical identification of plants both in the herbarium and in the field. *Prerequisite:* BIO235Y/250Y/P.I.
- BIO356H Major Features of Vertebrate Evolution** 2L, 3P
The evolution of the vertebrates as evidenced by the fossil record. Special emphasis will be placed upon the origin and adaptive radiation of amphibians and reptiles. Practical sessions will include the study of fossils, and techniques of collection and preparation. Occasionally laboratories will be held at the Royal Ontario Museum. *Prerequisite:* BIO251Y.
- JPB359Y Sociobiology: Biological Bases of Social Behaviour** 2L, 3P
(Taught jointly with Psychology)
Concepts from ethology, ecology, and population biology will be introduced and applied to the understanding of the evolution and biological function of social behaviour. Topics will include altruism, aggression, social spacing, dominance, sex, parental investment and care, social symbioses, and the evolution of life histories. Emphasis will be placed on the complex social systems of insects and mammals. Laboratory sessions will involve field observations, demonstrations, and preparation of individual projects. *Prerequisite:* BIO100Y, PSY100Y. *Corequisite:* BIO322H/PSY350H.
- BIO360H Biometrics I (Formerly part of BIO360E)** 2L, 3P
An introduction to the basic principles and procedures of biological statistics. Topics will include probability, sampling theory, descriptive statistics, estimation, comparison of samples and analysis of frequencies. Collection and analysis of biological data will be done in the laboratory. Students are advised to combine this course with BIO361H for a complete introduction to Biometrics. *Exclusion:* Any 200-level course in Statistics.
- BIO361H Biometrics II (Formerly part of BIO360E)** 2L, 3P
A sequel to BIO360H in which additional topics in biological statistics are discussed. Regression, experimental design, non-parametric statistics, and a variety of analyses of variance are included. Collection and analyses of biological data will be done in the laboratory. *Exclusion:* Any 200-level course in Statistics. *Prerequisite:* BIO360H.
- BIO370Y Microbiology** 2L, 3P
In depth discussion of microbial structure and ultrastructure; physiology and nutrition; growth and cultivation; nature of viruses (bacteriophage and a limited survey of animal viruses and their properties); the role of microorganisms in medicine, industry, agriculture, immunology, genetics, and ecology. *Prerequisite:* BIO100Y, CHM118Y/150Y. *Recommended preparation:* BIO241Y/270Y and CHM240Y.
- BIO371H Virology** 2L, 3P
Fundamental principles and techniques of animal virology, including methods of tissue culture, virus cultivation and assay, and physiology of virus development, will be dealt with in detail. *Prerequisite:* BIO100Y, CHM118Y/150Y. (BIO270Y recommended). *Corequisite:* BIO370Y.
- BIO420H Advanced Plant Physiology** 2L, 1T
Lectures, discussions, and student presentations from the current literature will be used to examine selected topics in plant physiology and development including plant hormones, water relations, morphogenesis, or plant photobiology. Responses to environmental stresses will be emphasized. *Prerequisite:* P.I.

- BIO421Y Advanced Animal Physiology** (Formerly BIO324Y) 2L, 3P
Selected topics will be studied in depth including: comparative aspects of circulation and respiration, physiological adaptations to environmentally induced stresses, neuro-endocrinology, and integration in selected regions of the mammalian brain. *Prerequisite*: BIO321Y/P.I. *Recommended preparation*: CHM240Y, 360Y.
- BIO422H Acoustic Behaviour** 3S
The role of sound in animal communication. Mechanisms of sound production and reception, the signal function of sounds, and recording and analysis techniques are the major topics studied. *Prerequisite*: Introductory knowledge of animal behaviour (e.g., BIO322H, 323H)/P.I.
- BIO424H Biology of Sensory Systems** 2L, 2T
A comparative approach to sensory physiology in a wide range of animals. The analysis of transduction and neural networks will incorporate anatomical, biochemical, and behavioural aspects of sensory systems. *Prerequisite*: BIO321Y.
- BIO430Y World Ecosystems** (Offered in alternate years) 2L
An investigation of the major biotic communities of the world. Their distribution, composition, structure, productivity and dynamic aspects will be considered in relation to environmental influences. Practical experience includes a two week field trip commencing the week before classes begin. Communities in six of the eight major site regions of Ontario from James Bay to Lake Erie will be studied. *Prerequisite*: BIO230H, 330Y/P.I.
- BIO431H Population Ecology** (Alternates with BIO432H) 2L, 1T
A further development of population concepts introduced in Ecology I and II, including analyses of the components of population growth, population regulation, and the evolution of reproduction and mortality schedules. The problems of predators and energy budgets of individuals and populations will also be considered. Tutorials will involve practice with quantitative methods of analysis and discussion of papers from the literature. *Prerequisite*: BIO230H, 231H, 360H.
- BIO432H Community Ecology** (Alternates with BIO431H) 2L, 1T
An animal and plant ecology course dealing with patterns and processes at the community level. Topics will include community structure and diversity, community energetics, and biogeographical theories. *Prerequisite*: BIO230H, 231H, 360H.
- BIO433H Arctic Ecology** 2L, 1T
The Arctic environment (climate, landscape, frost phenomena) is investigated. The characteristics of soils and plant and animal life are described and studied. Problems associated with increasing human activity in the Arctic are discussed. *Exclusion*: GGR241Y(G). *Prerequisite*: BIO230H or *Corequisite*: BIO230H.
- BIO435H Biogeography** 3S
The historical, descriptive, and dynamic aspects of large-scale distributional patterns of plants and animals are examined. Course work consists of lectures, class discussions and written assignments based on a variety of published material. *Prerequisite*: BIO230H and 231H/P.I. (BIO340Y recommended).
- BIO441Y Electron Microscopy** 1L, 3P
An introduction to the theory and practice of electron microscopy and its application to the study of the ultrastructure of cells and tissues. *Prerequisite*: Written permission is required to enroll. See instructor during registration week.
- BIO442H Evolution** 2L, 3P
The course concentrates on current concepts in evolutionary theory. Some of the topics that will be covered: mechanisms of speciation, mimicry, character displacement, genetic drift and the founder effect. Laboratories include individual seminars and constructing models of evolutionary mechanisms. *Prerequisite*: BIO340Y.

- BIO444H Cytogenetics** 2L, 3P
The Chromosomal basis of heredity: the course involves lectures and student seminars dealing with current literature on such topics as chromosome structure, recombination, chromosome aberrations, human and molecular cytogenetics. Laboratory work will include both somatic and meiotic cell analyses. *Prerequisite*: BIO340Y or equivalent.
- BIO452H Current Topics in Developmental Biology** 3L
The course focuses on the contributions of various scientists to the understanding of such problems as growth, cell division, cell communication, and morphogenesis. Informal seminar sessions involve critical discussions of recently published research articles. *Prerequisite*: BIO241Y, BIO352Y and P.I.
- BIO455H Developmental Molecular Biology** 1L, 2T
An examination of recent information on the molecular control of development in eukaryotes. Current ideas on the regulation of nucleic acid biosynthesis (nucleo-proteins, hormones, "specificity factors") will be reviewed for plants, animals, and eukaryotic microbes. An analysis of how current data fit into the theoretical models of gene regulation and development will be made. The course will include student discussions of published research articles. This course is the same as BOT455H(G). Every other week the class meets on the St. George Campus. *Prerequisite*: BIO340Y, 352Y, 241Y and P.I.
- BIO456H Biosystematics** 2T, 3P
A consideration of the principles of taxonomy with particular emphasis on vascular plants. Topics to be discussed include the species concept, polyploidy numerical taxonomy, geographical and ecological variation. Each student will be required to undertake an investigation of the variation found in a selected population of plants. *Prerequisite*: BIO235Y/250Y, (BIO340Y recommended). *Corequisite*: BIO340Y.
- BIO460H Microbial Ecology** 2L, 3P
The role of microorganisms in nature and the effects of human society. The course will cover four areas of the microbial ecosystem; the microbial community and its developments, interspecific relationships, the effects of microorganisms on their surroundings, and microbial aspects of pollution. *Prerequisite*: BIO370Y, 230H, 231H, /P.I. *Corequisite*: CHM240Y (CHM360Y recommended).
- BIO470Y Molecular Biology** 2L, 3T
To provide a background for students of biology and other sciences for further study in modern biology. The course will deal with microbial and viral genetics; the structure, function, and biosynthesis of nucleic acids and proteins; cell permeability; bioenergetics; regulatory mechanisms in bacteria; modern physio-chemical methods in studies of biomolecules, etc. *Prerequisite*: BIO241Y, 370Y, P.I. *Corequisite*: CHM360Y.
- BIO480H Biology Research Project I**
A research project carried out under the supervision of a staff member. Open to third and fourth year students. Written consent of staff member supervising the project must be obtained for registration. Seminar presentation may be required.
- BIO481H Biology Research Project II**
Open only to fourth year students. A fourth year student may combine BIO480H and BIO481H into a single project. Written consent of the supervising staff member must be obtained for registration. Seminar presentation may be required.

CHEMISTRY

Faculty Advisor: Professor I.W.J. Still

Modern chemistry provides an understanding of the structures and properties of atoms and molecules and uses this knowledge to interpret and predict changes associated with chemical reactions. In addition to its vital role in modern science-based industry, chemistry has an increasingly important bearing on other sciences such as biology, the medical sciences, psychology, geology, metallurgy and astrophysics. As an intellectual pursuit it is also becoming increasingly recognized as a sound basis for other walks of life, combining as it does the need for both disciplined and imaginative thinking. This is reflected in the courses offered in the recommended programmes in Chemistry.

Although science and technology have been responsible for the discovery and development of innumerable things beneficial to mankind, along with these creations unfortunately came a wide range of new problems. Some of these can be associated with our finite and exhaustible natural resources (energy conservation - coal, oil, gas, etc.), energy conservation hazards (nuclear waste problems), environmental pollution (air, water, food, noise, etc.), food shortages (agricultural, livestock, etc.). As many of the significant breakthroughs and advances in these fields are likely to originate from interdisciplinary research and development in the physical, biological and health sciences, the important role of the problem-solving chemist in our present-day society becomes immediately apparent.

Specialist Programmes: The various programmes in Chemistry offered at Erindale College provide a very suitable preparation for those who intend to enter the work force in industry, to teach chemistry in high school (Type A certificate) or to continue into a graduate programme.

Four Specialist Programmes in Chemistry are presently available at Erindale: CHEMISTRY, CHEMISTRY & BIOCHEMISTRY, CHEMISTRY & GEOLOGY, AND CHEMISTRY (PHYSICAL CHEMISTRY) and the detailed requirements associated with these are listed below. The first three years of the BIOCHEMISTRY Specialist Programme may also be taken at Erindale. In addition, a CHEMISTRY MINOR programme is available for students enrolled either for a three-year or four-year degree who wish a strong background in chemistry as part of a more general science programme. The content of each programme reflects the kind of training that is expected of students entering graduate study or other professional work in the area defined by the programme title. It is very important to plan your programme well in advance and to consult regularly (at least once a year) with the Faculty Advisor. It is particularly desirable to take specific courses in the year of study for which they are designed (e.g., CHM200 courses in Year II, etc.), as serious timetable clashes are likely to arise if this advice is not followed. In particular, students planning a programme in which chemistry plays a major role are strongly advised to take CHM215H, CHM230H, CHM221Y, and CHM240Y/241Y in their second year. While some deviations from the Specialist Programmes listed are possible, students should consult the Faculty Advisor *before* departing from the recommended programmes.

A Specialist Programme is not formally required for entry to graduate school in Chemistry but these programmes constitute an excellent preparation for this purpose. They also provide a means of attaining Type A teacher certification for those intending to teach chemistry at high school level. In addition, many of the courses listed provide excellent preparation for students whose main interests lie in the biological or earth sciences.

Specialist programme (Chemistry)

15 courses are required in a programme of at least 20 courses:

CHM150; MAT130Y/132Y/134Y/135Y/138Y/139Y; PHY140Y

CHM215H, 220Y*/221Y, 230H, 241Y; MAT235Y/239Y/APM251Y

(PHY231Y/another 200-series course in Science/Mathematics recommended for inclusion in either Second or Third year)

CHM320Y/321Y, 330Y, 340Y, 360Y/another Science or Mathematics course

CHM419Y; two additional 400-series CHM full-course equivalents and one additional CHM/MAT/another Science course or equivalent†

* Deleted

Minor programme (Chemistry)

8 courses are required in a programme of at least 15 courses:

CHM118Y/150Y, MAT130Y/132Y/134Y/135Y/138Y/139Y, CHM215H, 220Y*/221Y/222Y, 230H, 240Y/241Y

One of CHM315H plus 316H, CHM320Y/321Y, 330Y, 340Y

Two other 300Y- or 400-series CHM courses

NOTE: Limitations on CHM118Y as a prerequisite for 200-series CHM courses.

MAT prerequisite for CHM320Y/321Y. For a balanced training in Chemistry, students should take CHM320Y/321Y, 330Y and 340Y.

* Deleted

Specialist programme (Chemistry and Biochemistry)

15 1/2 courses are required in a programme of at least 20 courses:

CHM150Y; BIO100Y; MAT130Y/132Y/134Y/135Y/138Y/139Y; PHY140Y

CHM215H, 220Y*/221Y/222Y, 230H, 241Y; MAT235Y/239Y/APM251Y

CHM320Y/321Y/330Y; 340Y, 347H, 360Y, 371H

CHM447H(G)/BCH424H(G); one of BCH471Y(G)/CHM419Y; one additional BCH400(G)-series half-course; one additional CHM400-series half-course (preferably organic); one additional 400-series BCH or CHM full course (or equivalent).

* Deleted

Specialist programme (Chemistry and Geology)

The Chemistry and Geology programme is intended for students with a strong chemistry background who wish to undertake graduate work in this area or who may be contemplating professional careers in the oil and mining industries. Sixteen courses are required in a programme of at least 20 courses. See Earth and Planetary Science.

Specialist programme (Physical Chemistry)

16 courses are required in a programme of at least 20 courses:

CHM150Y; MAT130Y/132Y/134Y/135Y/138Y/139Y; PHY140Y

CHM220Y*/221Y, 230H, 240Y; MAT239Y; APM251Y; PHY230Y, 254Y; CHM320Y/321Y, 330Y/340Y; APM351Y (CHM215H recommended)

1 1/2 400-series CHM courses, two of PHY352Y, 351H plus 354H, 453H plus 458H, any other 300Y- or 400Y- series CHM course.

* Deleted

NOTE: Choice of fourth-year courses must be approved by the Chemistry Department. The Physical Chemistry programme includes the study of more physics than the Chemistry Specialist programme and is intended for students interested in the more physical areas of chemistry.

Specialist programme (Biochemistry)

11 courses required in a programme of at least 20 courses:

BIO100Y; CHM150Y; MAT130Y/132Y/134Y/135Y/138Y/139Y; PHY118Y/140Y

CHM220Y*/221Y/222Y; CHM240Y/241Y; CHM230H recommended

CHM340Y (if CHM240Y has been taken); CHM347H, 360Y, 371H

BCH471Y(G) and four of BCH421H(G)-430H(G)

* Deleted

NOTE: CHM241Y satisfies all the requirements in Organic Chemistry. Exemption from the CHM230H corequisite for CHM241Y may be obtained for students in this programme by application to the Chemistry Department. If CHM240Y is taken instead of CHM241Y then CHM340Y must also be included in the programme.

The Biochemistry Specialist programme can be taken wholly at Erindale for the first three years but students must take their fourth-year courses on the St. George Campus.

- CHM118Y General Chemistry** 3L(F), 2L(S), 3P
Fall Term: Chemical stoichiometry, gases and liquids, statistical treatment of data, equilibria, thermodynamics, kinetics and mechanisms. *Spring Term:* Applications of the principles of equilibria, kinetics and mechanisms; atomic and molecular structure, descriptive organic and inorganic chemistry, structures of solids, asymmetry in nature.
Note: CHM118Y is not a sufficient prerequisite for the higher level chemistry courses unless special permission is obtained. This will be granted only for students having attained a standing of at least grade B and/or who undertake an assigned independent study programme during the summer and pass a qualifying test. Applications for this programme must be made to the CHM118Y/150Y instructor before May 1st. *Exclusion:* CHM150Y. *Prerequisite:* Grade 13 CHM. *Corequisite:* MAT132Y/138Y.
- CHM150Y Basic Concepts of Chemistry** 3L(F), 2L(S), 3P
Note: All first-year chemistry students must enroll in CHM118Y. Those who qualify may have their registration changed to CHM150Y in the spring term.
Fall Term: See CHM118Y.
Spring Term: Introductory quantum theory and wave mechanics, atomic structure, periodic properties, bonding in molecules, introductory organic chemistry. (The laboratory courses of CHM150Y and 118Y are identical.) *Exclusion:* CHM118Y. *Prerequisite:* Grade 13 CHM; a minimum of 60% in the fall term of CHM118Y in order to transfer registration to CHM150Y in the spring term. Those not qualifying in this way must remain in CHM118Y. *Corequisite:* MAT132Y/138Y (PHY140Y required for specialist programmes in chemistry).
- CHM215H Fundamentals of Analytical Chemistry** 2L, 4P
 A rigorous introduction to the theory and practice of classical analytical chemistry. Gravimetric methods: direct and indirect precipitations. Volumetric methods: acid-base, redox, precipitation, and non-aqueous titrations. Introduction to statistical concepts in treatment of analytical data. *Prerequisite:* CHM150Y or 118Y (grade B) or 118Y + summer qualifier.
- CHM221Y Introductory Physical Chemistry** 3L, 4P(S)
 Basic thermodynamics, chemical potentials, thermodynamic manipulations, solution thermodynamics. Electrochemistry and solution chemistry. Surface chemistry, phase equilibria, and colloid chemistry. Reaction kinetics and catalysis (mechanisms). Introductory quantum mechanics and application to chemistry. Spectroscopy, including applications of infrared, ultraviolet, nuclear magnetic resonance, electron spin resonance. Introductory mass spectrometry and x-ray analysis. *Exclusion:* CHM222Y. *Prerequisite:* CHM150Y or CHM118Y (grade B) or CHM118Y + summer qualifier. MAT135Y/139Y.
- CHM222Y Physical Chemistry for Life Sciences** 3L
 Reaction kinetics, spectroscopy, thermodynamics, electrochemistry, surface chemistry, colloid chemistry, physical chemistry of macromolecules. *Exclusion:* CHM221Y. *Prerequisite:* CHM150Y or CHM118Y (grade B) or CHM118Y + summer qualifier. MAT130Y/134Y/135Y/139Y.
- CHM230H Introductory Inorganic Chemistry** 2L, 4P
 Brief review of atomic structure; chemical bonding; ionic solids; the chemistry of anions; coordination chemistry; solvents, solutions, acids and bases; introduction to the periodicity of the elements. The laboratory course introduces the student to a range of synthetic, analytical and instrumental techniques. *Prerequisite:* CHM150Y or 118Y (grade B) or CHM118Y + summer qualifier. *Corequisite:* CHM240Y/241Y, CHM221Y/222Y.

- CHM240Y Introductory Organic Chemistry** 2L, 4P(F)
The fundamentals of Organic Chemistry appropriate for biologists, pharmacists and medical school candidates who need a broad general background. The material includes synthesis and reactivity of the major classes of organic compounds from the standpoint of modern theories of structure and reaction mechanisms. The laboratory includes basic techniques and selected examples of synthesis of organic compounds chosen to illustrate lecture material. *Exclusion:* CHM241Y. *Prerequisite:* CHM150Y or CHM118Y (grade B) or CHM118Y + summer qualifier.
- CHM241Y Organic Chemistry I** 3L, 4P
Part I of a two-year sequence in Organic Chemistry for students intending to specialize in the subject. The course will cover the same material as CHM240Y but a greater depth of understanding will be expected. *In addition* there will be a thorough examination of stereochemistry, more advanced synthetic methods, and applications of spectroscopy, as well as an introduction to electrocyclic and photochemical reactions. The laboratory course will be very similar to that of CHM240Y. Students who might be taking organic chemistry in third year should register in CHM241Y rather than CHM240Y since it is probable that only CHM341Y (see St. George Calendar) will be offered in 1980-81. *Exclusion:* CHM240Y. *Prerequisite:* CHM150Y or CHM118Y (grade B) or CHM118Y + summer qualifier. *Corequisite:* CHM221Y/ 222Y, 230H.
- CHM315H Instrumental Methods in Analytical Chemistry** 2L, 4P
The chemical principles and instrument design for the quantitative analysis of organic and inorganic materials. Techniques to be discussed will be selected from:- U.V.-visible, atomic absorption, mass spectroscopy; potentiometry and voltammetry, including polarography; gas-liquid chromatography; nuclear methods. Laboratory exercises will illustrate some of these techniques. The theory and application of opportunistic optimization of instrument performance will be presented and experimentally verified. *Prerequisite:* CHM215H, CHM220Y/221Y, CHM230H. *Corequisite:* CHM240Y recommended.
- CHM316H Industrial Applications of Instrumental Analysis** 2L, 4P
This course makes use of the knowledge of analytical principles and instrumentation gained in CHM315H in a survey of the ways in which they are applied in industry, pharmacy, analytical biochemistry, food and forensic science. Topics will include sample manipulation, multisample, rapid, and trace analysis, automation, optimisation techniques, laboratory design. *Exclusion:* CHM314Y(G). *Prerequisite:* CHM315H.
- CHM320Y Physical Chemistry** 2L, 4P
Quantum statistical mechanics. The solid and liquid states. Physical chemistry of surfaces. Photochemistry. *Exclusion:* CHM321Y. *Prerequisite:* CHM220Y, MAT235Y/239Y/APM251Y.
- CHM321Y Physical Chemistry** 2L, 4P(F)
The lectures in this course will be identical with CHM320Y. The laboratory will be one-half of the laboratory of CHM320Y. *Exclusion:* CHM320Y. *Prerequisite:* CHM221Y, MAT235Y/239Y/APM251Y.
- CHM330Y Inorganic Chemistry** 2L, 4P
Introduction to transition elements; theories of bonding in transition metal complexes; complexes of π -acceptor ligands; organometallic compounds; organometallic compounds in homogeneous catalysis; metals in biological systems; thermodynamics of complex formation; mechanisms of reactions of metal complexes; descriptive chemistry of selected transition metals; descriptive chemistry of selected main group metals. The laboratory course covers a wide range of synthetic, analytical and instrumental techniques. *Prerequisite:* CHM230H.

- CHM340Y Organic Chemistry** 2L, 4P
The stereochemistry of organic compounds in relation to their physical and chemical properties and to factors affecting rates of reaction. Mechanistic aspects of organic reactions. The application of both stereochemical and mechanistic considerations to the synthesis of polyfunctional organic compounds. *Prerequisite:* CHM240Y.
- CHM347H Organic Chemistry of Biologically Important Compounds** 2L
The chemistry of selected classes of naturally occurring molecules with emphasis on structure, stereochemistry, properties and synthesis. Amino acids, peptides, proteins, carbohydrates, nucleosides, nucleotides, nucleic acids, terpenes and steroids. *Corequisite:* CHM340Y.
- CHM360Y Biological Chemistry** 3L
A lecture course in general biochemistry treating physical chemistry of proteins, enzyme reaction kinetics and mechanisms, metabolic processes and control mechanisms, biosynthetic pathways of small molecules, nucleic acids and protein synthesis, and bioenergetics. In the spring term each student will prepare a term paper, based on literature research in a topic of current biochemical interest, and will discuss it in a seminar. This course is an acceptable equivalent to BCH320Y(G)/321Y(G) as prerequisite for fourth-year courses in Biochemistry. *Prerequisite:* CHM240Y (CHM230H recommended). *Corequisite:* CHM220Y/221Y/222Y/P.I. CHM340Y recommended.
- CHM371H A Laboratory Course in Biochemistry** 3P
To complement CHM360Y and prepare for BCH471H (G). (Equivalent to BCH371H(G)). *Corequisite:* CHM360Y and P.I.
- CHM410Y Topics in Chemistry** 2L
A series of topics covering major areas of current interest in chemistry such as organometallic chemistry, organic synthesis, spectroscopy, photochemistry, thermodynamics, kinetics, organic and inorganic reaction mechanisms, and the chemistry of biologically important molecules. Each topic will comprise at least 12 lectures. Students' choice of topics must total approximately 50 lectures and must be approved by the Discipline Advisor. *Prerequisite:* P.I. and CHM220Y/221Y and three of CHM320Y/321Y, 330Y, 340Y and 360Y.
- CHM411H Topics in Chemistry** 1L
This course will comprise 25 lectures on topics not chosen from CHM410Y and approved by the Discipline Advisor. *Prerequisite:* P.I. and CHM220Y/221Y and three of CHM320Y/321Y, 330Y, 340Y, and 360Y.
- CHM412H Topics in Chemistry** 1L
This course will comprise 25 lectures on topics not chosen from CHM410Y and approved by the Discipline Advisor. *Prerequisite:* P.I. and CHM220Y/221Y and three of CHM320Y/321Y, 330Y, 340Y, and 360Y.
- CHM415Y Dissertation Based On Literature Research**
The dissertation will be based on literature research of a given area and would be expected to occupy one-fifth of a student's programme. Introductory reading will be necessary early in the course to bring students to a level where they can appreciate the most recent work in their topic. The dissertation will be conducted under the guidance of a chemistry faculty member on a topic other than the student's research topic in CHM419Y. *Prerequisite:* P.I. and CHM220Y/221Y and three of CHM320Y/321Y, 330Y, 340Y, and 360Y.
- CHM419Y Introduction to Research in Chemistry**
An experimental or theoretical research problem in chemistry under the supervision of a member of the chemistry staff. The total time involved would be of the order of 250 hours, and students, in addition to carrying out research on their own projects, will be encouraged to participate fully in the activities of their chosen research groups. A final report incorporating the aims and results of this research will be required. *Corequisite:* At least one 400-level chemistry course and P.I.

CLASSICS

See also Greek and Roman History (GRH)

Greek and Latin Literature (GLL) Greek (GRK), and Latin (LAT)

Faculty Advisor: C.I. Rubincam

Classics is the study of the civilizations of Greece and Rome. The achievements of these civilizations are of interest in their own right, but they are also interesting in that they have been the foundation of so many aspects of our own civilization; of art, literature, philosophy, government. Courses in Classics thus present background material which is indispensable for the understanding of many other studies in the Humanities.

Courses are offered at Erindale in four areas. Two of these require no knowledge of the original languages: (1) Greek and Roman History (GRH). (Upon petition to the Department of History students may receive credit for these courses toward the Specialist Programme in History.) (2) Greek and Roman Literature, read in translation (GLL). (This heading also includes the study of myth and religion.) The other two areas are Latin (LAT) and Greek (GRK) language and literature studied in the original. Beginners' courses are offered in both languages.

For courses in Classics see Greek and Roman History (GRH), Greek and Latin Literature (GLL), Greek (GRK), and Latin (LAT); also FAH101Y, HIS485Y, 486Y.

Minor programme in Classical Civilization

6 courses are required in a programme of at least 15 courses:

One GRH full course or equivalent; one GLL full course or equivalent;

One full course or equivalent in ancient fine art (usually FAH101Y);

Three other full course equivalents in GRH; GLL; GRK; LAT; PHL200Y, HIS485Y, 486Y (same as GRH311Y).

The programme is designed to meet the needs both of students seeking a broad survey of Greek and Roman culture and of specialists in other Humanities subjects who require background knowledge of Classics for their particular interests, whether literary, historical or philosophical.

COMMERCE

Faculty Advisor: Professor L.J. Brooks

Objective of Commerce Programmes

The objective of the programme in Commerce and Finance is to help students develop the analytical abilities needed to solve problems and make decisions in organizations and to participate in and contribute constructively to our society generally.

The programme at the University of Toronto has long had a strong and unique economics content - one that equips graduates particularly well for the future in view of the increasing interaction between the private and public sectors of our economy and the special social, economic, and business problems that face us as a nation. It incorporates this philosophy by requiring the same minimum number of courses in each of Economics and Commerce.

The programme offers the student a foundation on which to build managerial and professional skills. Areas of study embrace the economic and legal environments of the enterprise, the determinants of organizational strategy, and the problems of achieving effectiveness within an organization.

The earlier parts of the programme emphasize studies of the accounting system that provides a basis for the flow of information within a business and to investors, of the economic factors that shape competitive and co-operative action in society and, generally, of the structure of our economic and social institutions.

More senior courses then build on these subject areas by dealing in depth with administrative and organizational behaviour, accounting policies and research, and marketing, production and financial strategies.

The programme also gives attention to the public sector and recognizes the increasing importance of applying administrative skills in the management of governmental institutions.

A student may design a programme for a B. Com. degree in such a way as to place special emphasis in Third and Fourth Years on one or more of the general areas of commerce, economics, accounting and finance, depending upon his plans for the future.

Students who choose to emphasize commerce tend to accept positions in business or government service on graduation or to undertake further studies at the graduate level in business administration or law.

Students who choose to emphasize economics may make a number of sub-choices within the field - for example, in economic theory, in mathematical economics, in economic history, and in economic development. A significant number of students who have made this choice have then undertaken graduate studies in economics and some have proceeded to academic careers.

Students who choose to emphasize accounting and finance may make careers in the accounting profession and in the financial world; a significant portion of the class has been so inclined in recent years.

There are two degree programmes in Commerce offered at Erindale: The Bachelor of Commerce (B. Com.) and the Minor in Commerce (B.A.). In addition many Commerce Courses are available to students seeking degrees outside of the Commerce discipline.

Bachelor of Commerce programme (B. Com.)

23 full courses required, specific subject requirements plus additional course requirements are summarized as follows:

7.0 Commerce

COM100Y/102Y, 220Y, 337Y, 450Y and 3.0 additional full course equivalents in COM

7.0 Economics

ECO100Y, 200Y, 202Y; ECO201Y/203Y/221Y/322Y; ECO220Y/STA242Y

One of ECO310Y, (325H and 326H), 328Y, and 1 full course equivalent in ECO

0.5 Computer Science

CSC139H

1.0 Mathematics

MAT130Y/132Y/134Y/135Y

2.5 Full course equivalents other than Commerce and Economics including 2 or more 200 or higher series courses

5.0 Full course equivalents from any discipline including Commerce and Economics. Students must obtain an overall average of 65% on the Commerce and Economics courses above the 100-series level included in their programme. In addition a cumulative G.P.A. of 1.50 or more must be obtained for all courses included in the student's programme, and a grade of "C-" or higher must be obtained in each of at least six 300 or 400 series courses.

NOTE: *Though no longer required, students are advised to take five courses in the first year (COM100Y, ECO100Y, MAT132Y, CSC139H are suggested) and six courses in each of the subsequent years.*

Interested students should obtain a programme description ("The B. Com. at Erindale") from the Registrar or from the Commerce Department.

Minor in Commerce programme

7 courses are required in a programme of at least 15 courses

5 Commerce full course equivalents including COM100Y/102Y/202Y, 220Y/ 221H/223H, 331Y

2 Economics full course equivalents including ECO100Y

8 Other full course equivalents (see BA requirements)

An average of at least 65% will be required in all Commerce and Economics courses above the 100-series.

- COM100Y Financial Accounting** 2L, 1P(A)
Basic theory and concepts which underlie the preparation of financial statements; double entry theory and practice, the accounting cycle from the recording of transactions to the year end entries and preparation of financial statements; problems of measuring income. *Exclusion:* COM102Y/202Y.
- COM202Y Accounting** 2L, 1P(A)
A survey of accounting theory and practice. Accounting as a means of supplying information relevant to economic decision-making, discussed more from the point of view of the user than the preparer of accounting statements; basic concepts and uses of management accounting. If a student is considering taking COM320Y in future, it should be noted that COM202Y is not an acceptable prerequisite. *Exclusion:* COM100Y/102Y. *Prerequisite:* Open only to students who have successfully completed five courses or written permission of instructor.
- COM220Y Management Accounting (Replaces COM223H and 224H)** 2L
The development of information for management decision making and control. Topics include costing, capital budgeting, and selected analytical tools such as regression analysis and inventory models. Case discussions and computer applications will be used where appropriate. *Exclusion:* COM221H, 222H, 223H, 224H. *Prerequisite:* COM100Y/202Y, ECO100Y. *Corequisite:* At least a half-course in statistics.
- COM224H Management Accounting II** 2L
An extension of COM223H covering the preparation of the data base used for the decisions and techniques discussed in COM223H, and to broaden the concept of the control environment; job order and process cost inventory systems, predetermined (standard cost) systems and advanced variance analysis, regression analysis, the behavioural impact of control systems, responsibility accounting, and control in the non-profit environment. Case discussions and computer applications will be used. *Prerequisite:* COM221H/223H.
- COM300Y The Legal Environment of Business** 2L
Development of an approach to reaching decisions objectively, examination of how law, as an institution, accommodates business convenience and social policy. Analysis of legal devices commonly encountered in the operation of a business. *Prerequisite:* ECO100Y. *Corequisite:* COM202Y/220Y/223H.
- COM320Y Financial Accounting Theory and Policy** 2L
Theory of and critical examination of corporate financial reporting and generally accepted accounting principles. *Prerequisite:* COM100Y, 220Y/223H.
- COM323Y Introduction to Public Administration (Same as POL322Y)** 2L, 1T
The literature of public administration and some of the main issues of the present and recent past in Canada and to a limited extent in Britain and other countries. In other countries primary emphasis will be on policies or features that have influenced Canadian practice. *Exclusion:* POL322Y. *Prerequisite:* COM100Y/102Y/POL100Y.
- COM324H Investments** 2L
Security analysis and portfolio management. Emphasis is placed on an analysis of bonds and common stocks. The course approaches investing as a rational decision-making process that meets a predetermined set of goals. *Prerequisite:* COM100Y/202Y, ECO202Y, 220Y/STA242Y. *Corequisite:* COM337Y/(COM331Y and permission of instructor).
- COM331Y Finance** 2L
Introduction to business finance. The financial decision-making process including the financing, investment, and dividend decisions of the firm. Institutional aspects of finance, with emphasis on the characteristics of various debt and equity instruments available in Canadian capital markets. Not available to students in the Commerce and Finance (B. Com.) programme. *Exclusion:* COM231H, 337Y, 421Y. *Prerequisite:* COM100Y/202Y, 220Y/221H/223H, ECO100Y/102Y, STA202H and 212H.

- COM337Y **Business Finance** (formerly COM337H and 437H) 2L
Topics include valuation models, cost of capital, capital budgeting, investment under uncertainty, the use of leverage, dividend policy, and the financial environment within which Canadian companies operate. The characteristics of various debt equity instruments available in the Canadian capital market is emphasized. *Exclusion:* COM231H, 337H, 421Y. *Prerequisite:* COM220Y/222H/223H, MAT130Y/132Y/134Y/135Y, ECO220Y/STA242Y. *Corequisite:* ECO200Y/202Y.
- COM400Y **Marketing** 2L
Market definition, consumer behaviour, and management strategies dealing with product line development, pricing, distribution, promotion, salesforce management, advertising, research, planning and consumerism. *Prerequisite:* COM220Y/221H/223H, ECO200Y/202Y.
- COM420Y **Accounting Literature and Research** 2L
A seminar for the critical discussion of research bulletins and monographs of the leading accounting bodies in Canada, the United States and Britain, of articles in current issues of accounting journals, and of classic articles in books of readings. Its purpose is to provide a review of contemporary and controversial issues in accounting theory. Enrolment is limited. *Prerequisite:* COM220Y/221H/223H, 320Y.
- COM422Y **Quantitative Systems Analysis** 2L
A course dealing with quantitative analysis for management decision-making in the areas of marketing, finance, operations, personnel and the public sector. Models found applicable for the analysis of decision problems will be discussed such as: linear and non-linear programming, dynamic programming, network analysis, games and statistical decisions, Markov processes, and queueing models and simulation. The interface between the models and the human will form a basic theme of the course. *Prerequisite:* COM220Y/221H/223H/CSC248H, ECO200Y/MAT234Y/239Y, ECO220Y/STA242Y.
- COM423Y **Canadian Business Taxation** 2L
Introduction to the technical provisions and broad policy issues involved in taxation of business enterprises in Canada. *Prerequisite:* COM220Y/221H/223H, 231H/331Y/337Y, ECO200Y/202Y. Special Students who hold a University degree are exempt from the ECO200Y/202Y prerequisite.
- COM427H **Introduction to International Business** 2L
The interaction of the international environment with business operations; the adaptation of business strategy for the economic, socio-political and cultural environment prevalent in foreign areas of business opportunities. Canada as a host to international business; problems faced abroad by Canadian and other businesses. Cases deal with foreign risks and management alternatives to those risks. *Prerequisite:* COM220Y/223H, ECO200Y, 202Y.
- COM428H **Management Control** 2L
The case method will be used to provide an understanding of the issues and environment of management control, and will integrate material from other courses in Commerce and Economics in the solution of problems in systems design and operation. Enrolment is limited and is by permission of the instructor. *Prerequisite:* COM220Y/223H/(COM221H and 222H) and P.I.
- COM441H **Theory of Administrative Behaviour I** 2L
Considers theoretical ideas and empirical data concerning individual and group behaviour in organizations. Emphasis is placed on the relevance of these for problems confronting management: Motivation, influence, communication, supervision and decision-making. *Exclusion:* COM401Y, WDW103Y. *Prerequisite:* COM220Y/222H/223H, ECO200Y/202Y. *Corequisite:* COM331Y/337Y/437H.

COM442H Theory of Administrative Behaviour II

2L

Presents the evolution of managerial and organization theory and practice from the classical approach of bureaucratic theory to the concepts of the organization as an open system. The managerial assumptions and implications of these theories are explored and applied to organizational problems. *Exclusion:* COM401Y, WDW103Y. *Prerequisite:* COM220Y/222H/223H, ECO200Y/202Y. *Corequisite:* COM331Y/337Y/437H.

COM450Y Management Policy and Strategy

2L

Choice of corporate purposes and definition of needs, the mobilization of resources and moulding of organizational character for the attainment of goals. Analysis of the conditions for the survival and growth of the corporation as it relates to (1) external environmental threats and opportunities, and (2) the assessment of internal strengths and weaknesses. This is a required course in Commerce and Finance, and priority is given to students enrolled in that programme. *Exclusion:* COM426H. *Prerequisite:* COM220Y/222H/223H, 337Y/437H, ECO200Y, 202Y.

COMPUTER SCIENCE

Faculty Advisor: TBA

Computer Science is concerned with the use of computers to process information. A modern computer is expected to process many different kinds of information: business accounts and records, scientific calculations for engineering and the physical sciences, natural language text for linguists. Computer Science includes the identification of classes of problems that can be solved using computers, the study of ways of representing the relevant information in computer usable form, and the investigation of how to describe solutions best in terms of the operations that computers can perform.

A fundamental concept in Computer Science is the algorithm - a list of instructions which specifies the steps required to solve a particular problem. Two major concerns in Computer Science are the analysis of problems, frequently using the tools of mathematics and statistics, and the formulation of algorithms to solve particular classes of problems. Other areas of interest include the transformation of abstract algorithms into computer programmes, and the testing and validation of algorithms and programmes. Closely related to these areas are efforts to develop tools for designing better computers and for using them more effectively.

Course offerings are intended to serve a wide variety of students, ranging from those whose primary interest is in information processing, to those interested in applying computers in other fields. The specialist programme in Computer Science is designed to provide a student with the knowledge and skills needed to hold professional positions in the computer field and to prepare the student for graduate study. The specialist programme in Computer Science for Data Management is intended for students who plan to pursue a career in information systems development, an area of increasing importance to business, industry, and government. From this programme a student may also continue with graduate study in Computer Science. If certain optional courses in the Faculty of Management Studies, or their equivalents in Commerce, are taken in the third and fourth years, a student in this programme may qualify for advanced standing toward the MBA degree. The minor programme in Computer Science may be taken by students in other areas such as the humanities, social sciences, life sciences, or physical sciences.

Students who wish to study computing primarily in order to use computer techniques in their own specialties should begin with CSC139H and CSC118H. A number of applications courses are then available in the second and later years. CSC336H is recommended for science students. CSC208H(G), 218H(G) and 300H(G) are other possibilities.

Students who are anticipating a career in secondary school teaching should select several courses from the following: CSC139H/149H, 118H/158H, 228H, 248H, 258H, 300H(G), 336H, 356H.

Erindale students should note that CSC356H is designed to serve the purposes of CSC334H(G) or CSC378H(G) whenever they appear as exclusions, prerequisites, or corequisites in the St. George calendar.

Specialist programme (Computer Science)

10 courses are required in a programme of at least 20 courses:

CSC139H/149H, 158H; MAT138Y/139Y

CSC228H, 248H, 258H; MAT228H, 239Y

CSC336H, 348H, 356H; MAT334H; STA242Y

Any two of CSC438H, 441H(G), 446H(G), 448H, 451H(G), 478H(G) (including at least one of 438H and 448H)

Any two of CSC368H, 434H(G), 458H(G), 468H(G), 474H(G), 484H(G)

Minor programme (Computer Science)

6 $\frac{1}{2}$ or 7 courses are required in a programme of at least 15 courses:

CSC139H/149H, 158H; MAT132Y/134Y/135Y/138Y/139Y

CSC248H, 258H; MAT228H/STA242Y

Six CSC half-courses from the following:

At least two of CSC228H, 356H, 368H, 434H(G), 444H(G), 458H(G), 468H(G), 474H(G), 484H(G)

At least two of CSC336H, 348H, 438H, 441H(G), 446H(G), 448H, 451H(G), 478H(G)

Any of CSC208H(G), 218H(G), 300H(G)

Specialist programme (Computer Science for Data Management)

13 courses are required in a programme of at least 20 courses:

CSC139H/149H, 158H; COM100Y; ECO100Y;

MAT132Y/134Y/135Y/138Y/139Y

CSC228H, 248H, 258H; COM223H; ECO200Y; MAT234Y

CSC356H; COM224H; MAT228H; STA242Y

Any two of CSC336H, 348H, 438H, 448H, 478H(G)

Any three of CSC368H, 434H(G), 444H(G), 458H(G), 468H(G), 474H(G), 484H(G)

Specialist programme (Mathematical Sciences)

See the listing for Mathematics.

CSC118H Programming Applications

2L, 1T

A continuation of CSC139H, but at a less intensive level than CSC158H. Survey of the uses of computers. Applications of computers in areas such as data processing, simulation, numerical calculations, and nonnumeric information processing. *Exclusion:* CSC158H, 202H(G). *Prerequisite:* CSC108H(G) (as given before 1979-80)/139H/148H(G)/149H/201H(G).

CSC139H Introduction to Computer Programming

2L, 2T

Introduction to algorithms and problem solving with computers. Programming in a high-level language, such as PL/I. Structured programming. Introduction to computer organization and assembly language. Some nonnumeric applications. *Exclusion:* CSC108H(G) (as given before 1979-80), 148H(G), 149H, 201H(G). *Prerequisite:* Grade 12 Mathematics.

NOTE: CSC139H leads into both CSC118H and CSC158H. To gain entry into CSC158H, a student must achieve a minimum grade of C in CSC139H (normally taken in the preceding fall) or a pass in CSC149H. Because CSC158H is a prerequisite to the majority of upper-year CSC courses, a student must choose his spring term first-year CSC half-course carefully. Note that MAT132Y/134Y/135Y/138Y/139Y is a corequisite of CSC158H. A student who takes CSC118H and wishes to take those upper-year courses requiring CSC158H as a prerequisite must obtain high standing in CSC118H and/or pass a Departmental qualifying test in the August preceding those courses.

- CSC149H Programming Techniques and Style** 2L, 2T
An advanced treatment of CSC139H topics, intended for students with prior programming experience, e.g., one year at the high school level. Emphasis will be placed on principles of good programming style and on the design of understandable programmes. (The normal follow-up to CSC149H is CSC158H. However, students whose performance in CSC149H is excellent may take any second year CSC course concurrently with CSC158H, with permission.) *Exclusion:* CSC108H(G) (as given before 1979-80), 139H, 148H(G), 201H(G). *Prerequisite:* Grade 13 Mathematics R&F and C, previous programming experience. *Corequisite:* MAT132Y/134Y/135Y/139Y.
- CSC158H Computer Applications** 2L, 1T
A continuation of CSC139H or CSC149H, but at a more intensive level than CSC118H. The application of computers to various problems. Elementary numerical methods. Some techniques of data processing. Construction and validation of computer simulation models. Representation and manipulation of graphs. Other non-numerical applications. *Exclusion:* CSC118H, 202H(G). *Prerequisite:* (A minimum grade of C in CSC139H)/148H(G)/149H. *Corequisite:* MAT132Y/134Y/135Y/139Y.
- CSC228H Programming Techniques For Data Processing** 2L, 1T
Introduction to the COBOL programming language and its use in sequential file processing applications. Structuring and engineering efficient and modular sequential file processing programmes. Hierarchical vs. flat file design. Decision tables and their application to structuring programmes. Introduction to internal and external sorting. Basic concepts in data encoding, validation, and controls. Generalized file processing packages. *Prerequisite:* CSC158H.
- CSC248H Programming Languages** 2L, 1T
Programming language features including those useful for describing programme flow, aiding readability and defining data structures. Emphasis on general-purpose languages; introduction to some special-purpose languages. *Prerequisite:* CSC158H.
- CSC258H Computer Organization** 2L, 1T
Computer structures, machine languages, instruction execution, addressing techniques and digital representation of data. Computer system organization, memory storage devices, micro-programming. Some case studies of actual machines to illustrate various computer architectures. *Prerequisite:* CSC158H.
- CSC336H Numerical Methods** 2L, 1T
The study of computational methods for solving problems in linear algebra, nonlinear equations, approximations, and ordinary differential equations. The aim is to teach the students how to use mathematical subroutine packages currently available in computer libraries. *Exclusion:* CSC351H(G). *Prerequisite:* CSC118H/158H/202H(G), MAT234Y/235Y/239Y. *Corequisite:* MAT228H.
- CSC348H Introduction to Applied Algebra** (Same as MAT348H) 2L, 1T
A universal algebra approach to the structures of modern algebra, with a view to applications to computer science. The emphasis is on rings and groups; in particular, the ring of integers (i.e., number theory) and the ring of polynomials over a field. *Exclusion:* MAT229H (as given before 1978-79)/300Y (as given before 1977-78)/340Y(G)/345Y(G). *Prerequisite:* MAT228H.
- CSC356H Topics in Data Processing and Information Structures** 2L, 1T
Searching and sorting algorithms, retrieval and update algorithms. The representation and application of data structures in these and other algorithms. Management information systems. *Exclusion:* CSC334H(G), 378H(G). *Prerequisite:* CSC228H/(248H and 258H).
- CSC368H Language Processors** 2L, 1T
Formal description and classification of programming languages. Specification of syntax. The parsing problem. Top-down and bottom-up parsing. Attaching semantics to syntax. Translator writing systems. *Exclusion:* CSC344H(G). *Prerequisite:* CSC248H, 258H, 356H.

- CSC438H Computability and Logic** (Offered in alternate years with CSC448H) 3L
 Alternative characterizations of the effectively computable functions, including simple formal programming languages, Turing machines, and the partial recursive functions. Church's thesis, unsolvable problems, recursively enumerable sets, computational complexity. Propositional calculus, predicate calculus including the completeness, compactness, and Lowenheim-Skolem theorems, formal theories. *Exclusion:* CSC364H(G). *Prerequisite:* CSC348H/MAT(304H/340Y(G)/345Y(G)).
- CSC448H Automata Theory** (Offered in alternate years with CSC438H) 3L
 Sequential machines, finite automata and regular sets; generative grammars and languages (context free, context sensitive) and their relation to classes of automata (push down, linear bounded); complexity bounds for recognition, language decision problems, and operations on languages; generalized models of finite automata, and applications to programme schemata, compiling, and decidable theories. *Prerequisite:* CSC348H/MAT(304H/340Y(G)/345Y(G)).
- CSC492H Computer Science Implementation Project**
 This half-course involves a significant implementation project in any area of Computer Science. The project may be undertaken individually or in small groups. The project is offered by arrangement with a Computer Science faculty member. *Exclusion:* CSC494H(G). *Prerequisite:* At least three 300-level CSC half-courses and permission of the Discipline Representative.
- CSC493H Computer Science Expository Work**
 This half-course involves a significant literature search and expository work in any area of Computer Science. This work must be undertaken individually. It is offered by arrangement with a Computer Science faculty member. *Exclusion:* CSC494H(G). *Prerequisite:* At least three 300-level CSC half-courses and permission of the Discipline Representative. *Recommended preparation:* INE203Y.

DRAMA

Faculty Advisor: Professor J. Astington

The study of drama invites the student to consider a form of art as old as man. Facilities at Erindale provide opportunities for a full and varied exploration of the nature of drama: courses in dramatic literature, theatrical history, and theatre practice enable the student to experience a number of different approaches to understanding. An equipped Studio Theatre is available for rehearsal and performance.

Minor programme

6 courses are required in a programme of at least 15 courses:
 These courses must be chosen from the following groups:

Theatre History and Theory

DRA110Y

Theatre Practice

DRA200Y, 300Y

Dramatic Literature

ENG212Y, 254H, 332Y, 338Y

FRE352Y, 354Y

GER350Y

GLL200Y

ITA272H, 422H

MUS400H

SLA212Y, 341Y

SPA247H, 346H, 376H.

- DRA110Y History of Western Theatre from Antiquity to the Present Day** 2L, 1S
A survey of the development of the arts of the theatre, covering the following major periods and styles: Ancient Greece, Rome, Mediaeval, Renaissance, Neoclassical, Baroque, 18C., 19C., and Modern Theatre (Europe); American Theatre. Subjects of study will include theatre architecture, stage design, techniques of acting, staging and production, costuming, lighting, and the social context of theatre (audiences, patrons).
- DRA200Y Acting I** 4P
Basic areas of acting technique in speech and movement; problems of portrayal of character; phenomena of theatrical communication (actor to actor, actor to audience, and "feedback") and techniques for their control. Students will be expected to participate in public productions and to prepare for classes as for rehearsal (line learning, research).
- DRA300Y Acting II** 4P
Detailed work on acting technique and the interpretation of the play text. Students will be expected to work on their own to a considerable extent, in preparation of scenes for group discussion, and to work on productions arising from the course. The work of DRA200Y will be continued in a more advanced and intensive way.
Prerequisite: DRA200Y or equivalent.

ECONOMICS

Faculty Advisor: Professor J.A. Hynes

Economics is a social science; that is, it is an exploration of the behaviour of people in society. It has a strong influence on the structure, well-being and development of a society. More specifically, Economics studies the ways in which the resources of a country (capital, labour, land and natural resources) are allocated between industries to efficiently produce the range of goods and services provided in the country each year. The decisions of what to produce, of production methods, and how to distribute the goods and services provided must be made in each country irrespective of the political organization of the government in that country. Allocative decisions are made according to traditional patterns and customs; by government decree, policies and planning, and finally by the allocative mechanisms inherent in the price system.

At the aggregate level Economics considers such problems as the excessive levels of unemployment and inflation in the Canadian economy, and analyzes policies which can mitigate these burdens. The study of Economics also assesses the fairness of the tax burden, and the degree to which government spending can be justified. At a more micro or disaggregated level, economic analysis considers the determination of economic efficiency in different types of industry (e.g. oligopoly, and pure competition); the impact of anti-trust regulations, and the determination of prices of both outputs and inputs through the forces of supply and demand. Economic assessments of international trade patterns, tariffs and the consequences of foreign direct investment are also integral.

In addition, economic analysis focuses on such issues as pollution, poverty, the rate of economic growth and urbanization, regional disparities and custom unions, topics which are ubiquitous in today's newspapers.

The course sequence in Economics at Erindale is intentionally designed to accommodate the interests of both students who wish to specialize in this discipline, and concomitantly, those who wish a broader assessment.

Students who wish to concentrate in Economics may proceed into the Four Year "specialist programme" in Economics; into the Programme in Commerce and Finance, an internationally acknowledged joint major in Commerce and Economics which is offered at Erindale College, or into the "specialist programme" in Economics and Political Science. A "Minor" programme in Economics is also available.

Students frequently engage in joint majors in Economics and History, Geography, Mathematics or Sociology. A sequence in Economics is also suitable for those concentrating in the physical sciences.

Students who concentrate in Economics frequently continue into graduate work in Business or Economics, or proceed into Law, Chartered Accountancy and many other areas of industry and government. Scientists, doctors, musicians and even potential astronauts who have been exposed to a series of courses in Economics develop a more sophisticated comprehension of the principal economic issues which confront society. Concomitantly those who have been exposed to a hard-core diet of rigorous economic analysis will find that it enhances their decision-making processes.

First year preparation includes ECO100Y and for the "specialists" either MAT132Y or MAT138Y.

Specialist programme (Economics)

10 courses are required in a programme of at least 20 courses:

Eight full courses in ECO plus one each in STA and MAT

ECO100Y, 200Y, 202Y, 220Y/STA242Y

ECO322Y, 325H, 326H

At least one full course in Economic History

MAT130Y/132Y/134Y/135Y

Students who wish to be specialists should have attained a B average in courses in Economics by the time they have completed 10 courses in all. Upon completion of 10 courses, they must register with the Faculty Advisor.

Minor Programme (Economics)

6 courses are required in a programme of at least 15 courses:

ECO100Y, 200Y, 202Y

At least three additional full course equivalents in ECO

NOTE: First year preparation includes ECO100Y and for the "specialist" either MAT130Y/132Y/134Y/135Y.

Specialist programme (Economics and Political Science)

13 courses are required in a programme of at least 20 courses:

Seven full courses in Economics including ECO100Y, 200Y, 202Y,

ECO322Y, a course in Economic History.

Six full courses in Political Science including POL100Y, 214Y, two of POL101Y/200Y/320Y and two additional courses in Political Science from two of five fields.

ECO100Y Introduction to Economics

3L, 1T

A survey course with emphasis on the basic concepts and techniques of macro and micro economic theory. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; business cycle determination; the derivation and use of supply and demand schedules; the theory of the firm; and principles of comparative advantage and tariff protection.

ECO200Y Micro Economic Theory

2L

An intermediate treatment of the basic tools of economic analysis with applications to a wide variety of economic problems in the area of pricing, resource allocation, income distribution, and welfare economics. *Prerequisite:* ECO100Y.

ECO202Y Macroeconomic Theory and Policy: National Income, Money and Banking

2L, 1T

Macroeconomics, monetary economics, economic stabilization, capital markets and international monetary economics. Theory of output, employment and the price level; techniques for achieving economic stability; central banking and Canadian financial institutions and markets; foreign exchange markets. *Exclusion:* ECO212Y. *Prerequisite:* ECO100Y/102Y/103Y.

ECO203Y Modern European Economic History (Formerly ECO201Y)

2L

The economic development of modern Europe, with emphasis on the industrialization process and agrarian change in major European countries with concentration on the period from 1750 to 1939. *Prerequisite:* ECO100Y.

- ECO220Y Quantitative Methods in Economics** 2L, 1T
An introduction to the use of statistical analysis, including such topics as elementary probability theory, sampling distributions, tests of hypothesis, estimation; analysis of variance and regression analysis. Emphasis is placed on applications in economics and business problems. *Prerequisite:* ECO100Y and MAT130Y/132Y/134Y/135Y. *Exclusion:* STA202H, 212H, 242Y, GGR202H, 212H, PSY200H, 201H.
- ECO221Y Canadian Economic History Since 1500** 2L
Canadian economic growth and development from the sixteenth century to the present. Reference to relevant topics in United States economic history, especially during the colonial period. *Exclusion:* ECO222Y. *Prerequisite:* ECO100/102/103Y.
- ECO260H The Economics of Environmental Deterioration** 2L
An analysis of the misallocation of resources caused by different types of pollutants. The course will stress both economic analysis and case studies. *Prerequisite:* ECO100Y and P.I.
- ECO310Y Industrial Organization and Public Policy** 2L
The allocative implications of market failure and the operation of oligopolistic and imperfectly competitive markets. Measures of industrial concentration and other dimensions of market structure; models of firm behaviour in different market settings; case studies of particular industries. Government policies affecting the private sector; possible improvements in current policies. Emphasis on competition and anti-combines policy, the regulated industries, the patent system, externalities and market failure, and the industrial implications of tariff policy. *Prerequisite:* ECO200Y.
- ECO320Y An Economic Analysis of Law** 2L
This course will examine the economic basis for the law. The material will include an analysis of liability rules, including no-fault systems, workmen's compensation, consumer protection legislation, and medical malpractice. The appropriate economic measures of damages in tort cases will be discussed. Property rights will be considered in depth. Other topics include contracts, family law, the corporation, crime as an occupation, and law enforcement. *Prerequisite:* ECO200Y
- ECO322Y History of Economic Thought** 2L
After a brief summary account of scholastic and mercantilist economics, the lectures will trace in some detail the development of analytical economics from the eighteenth century with special emphasis upon the work of the Physiocrats; Adam Smith; the British Classical School (particularly T.R. Malthus, David Ricardo, and J.S. Mill); the "marginalists" (particularly W.S. Jevons, C. Menger and L. Walras) and Marx. Later developments will be examined if time permits. A number of methodological issues are raised, particularly the relationship between economic events and economic theory, and the question of "bias" in economics. *Prerequisite:* ECO200Y and ECO202Y.
- ECO324Y Economic Development** 2L
Emphasis is on the economic conditions of low-income countries and the prospects of their economic transformation. Frequent reference will be made to specific issues affecting the nations of Africa, Asia and Latin America. *Prerequisite:* ECO200Y and 202Y.
- ECO325H Advanced Economic Theory - Macro** 2L
To develop analytical skills in construction and solving macro-economic models. *Prerequisite:* ECO202Y and MAT130Y/132Y/134Y/135Y.
- ECO326H Advanced Economic Theory - Micro** 2L
Focuses on theories and techniques of decision-making by firms and households. It examines the problem of measuring economic welfare, and the merits and shortcomings of the market mechanism in promoting it. *Prerequisite:* ECO200Y and MAT130Y/132Y/134Y/135Y.

- ECO327Y **Econometrics** 2L
The development and application of those statistical techniques that are used in the testing of the implications of economic theory. *Prerequisite:* ECO200Y, ECO202Y, ECO220Y.
- ECO328Y **International Economics and Policy** 2L
An analysis of the nature, effects and policy implications of international trade and finance. The theories of comparative costs and reciprocal demand; factor reward equalization; balance of payments and foreign exchange; international tariffs; liquidity; customs unions; and relevant topics related to current problems in international economic affairs. *Prerequisite:* ECO200Y and 202Y.
- ECO333Y **Urban Economics** 2L
The purpose of the course is two fold. To analyse the effects of government policies for regulating markets in urban areas using such examples as zoning, land speculation, rent control and strategies for pollution control. To evaluate current and proposed methods of providing and financing urban services including discussion of such topics as metropolitan government pricing of transportation services and the effect of the property tax. *Prerequisite:* ECO200Y.
- ECO336Y **Canadian Public Finance** 2L
The construction of an economic theory of government to explain the determination of the budget and to provide an economic rationale for government intervention; an analysis of changing patterns of expenditure and revenue of federal and provincial governments; the development of criteria for the evaluation of expenditure programmes and the tax structure; the problems and techniques of fiscal stabilization. *Prerequisite:* ECO200Y and ECO202Y.
- ECO361H **Economics and the Labour Market** 2L
The supply and demand for labour, labour mobility, patterns of unemployment and the operation of labour markets are analyzed. *Prerequisite:* ECO200Y.
- ECO362H **Labour Economics and Labour Relations** (A continuation of ECO361H) 2L
Examines the economic aspects of trade unions and the effect of collective bargaining on earnings. Relationships between labour market conditions and the size of wage bargains are studied. The determinants of wage differentials and government manpower and educational policies are also considered. *Prerequisite:* ECO361H.
- ECO368H **Economics of Poverty** 2L
Economic influences on the extent of inequality and poverty in Canada will be examined. These will include aggregate income levels, unemployment, inflation, regional development, education, low wage employment and discrimination. Canadian policies that affect the incidence of poverty are evaluated, and proposed programmes are critically analyzed. *Prerequisite:* ECO200Y.
- ECO424Y **Senior Seminar in Economic Analysis** 2L
An advanced seminar in economic analysis. Enrolment limited. (See Faculty Advisor) *Prerequisite:* ECO325H, ECO326H.

ENGLISH

Faculty Advisor: Professor B. Corman

The Department of English offers a wide range of courses. Whether an individual course provides a knowledge of one author or one genre or an entire period, its aim is to deepen the student's awareness and appreciation of a distinguished literary tradition.

Courses are arranged in four series. This gradation denotes the level of work expected in the classroom. Thus, courses in the 100 series are introductory; the 200 series provides courses at an intermediate level; and more advanced courses appear in the 300 and 400 series. Although prerequisites are required for courses beyond the 100 series, students in other disciplines have a wide choice of courses. (Students from outside the Faculty wishing to take English courses should consult the Associate Chairman of the Department.)

The Specialist Programme outlined under "Programmes of Study" provides the student with the opportunity to become acquainted with a range of authors, periods and critical approaches. The Specialist Programme is not designed especially for entrance into Graduate School; therefore, students contemplating further degrees should consult their instructors about graduate school requirements, including the customary language requirements. Similarly, students considering a teaching career in Ontario should consult the Faculty of Education about the requirements for Type A certification.

The student who desires information beyond what is set forth in this Calendar may obtain brochures from the various colleges. These describe the content of courses in fuller detail and supply lists of tests suggested by the individual instructors. Counselling is available from the Faculty Advisor as well as from other members of the English Faculty.

The 100-series courses are designed to introduce students to English studies at the university level and to develop their skills in critical reading and writing. The range of subject matter is broad, but all courses have certain aims and methods in common. Each course will include works of poetry, fiction or drama; while these materials will be studied as individual literary achievements and in their relation to the general subject matter of the particular course, they will also serve to familiarize students with different literary forms and a variety of critical approaches. Each course will also be concerned to encourage the close and careful reading of literary texts and to provide an opportunity for students to develop their writing abilities. 100 series courses are open to all students with fewer than nine courses and to other students who have standing in no more than one course in English. The 200-series courses are open to all students who have completed at least four full courses and to those with fewer than four full courses completed who are taking at least one 100-series course in English. The 300-series courses are open to all students who have completed at least four full courses. The 400-series courses are open to students who have completed at least nine full courses.

Specialist programme

10 courses are required in a programme of at least 20 courses.

For this programme a student is required:

To take at least 10 and not more than 15 courses in English:

To complete at least five courses outside the Department of English by the end of his Fourth Year.

The basic programme of 10 courses consists of one course from each of the following categories:

ENG108Y/112Y/140Y/165Y

ENG200Y/300Y/312Y/404Y

ENG206Y/302Y/304Y/413Y

ENG212Y/332Y

ENG306Y/415Y

ENG207Y/308Y/346Y/368Y/417Y

ENG322Y/324Y

ENG250Y/252Y/254H & 375H/318Y/319Y/354Y/356Y/451Y/454Y

ENG328Y/338Y/348Y/419Y

ENG404Y/413Y/415Y/417Y/419Y/451Y/454Y/466Y/467Y/469Y

Minor programme

7 courses are required in a programme of at least 15 courses:

One course must be selected from each of the following categories:

ENG108Y/112Y/140Y/165Y

ENG200Y/300Y/312Y/404Y

ENG206Y/302Y/304Y/413Y

ENG212Y/332Y

ENG306Y/322Y/415Y

ENG207Y/308Y/324Y/346Y/368Y/417Y

ENG328Y/338Y/348Y/419Y

- ENG108Y Forms of Twentieth Century Literature** 3L
An introduction to the study of literature through at least ten but not more than twelve works by modern authors, including three dramatists, three poets, and three novelists. These shall include Shaw, *Heartbreak House*; Beckett, *Waiting for Godot*; Williams, *A Streetcar Named Desire*; Joyce, *Dubliners* OR *A Portrait of the Artist as a Young Man*; Lawrence, *Sons and Lovers* OR *Women in Love*; Faulkner, *As I Lay Dying* OR *Go Down Moses*; poems by Yeats, Eliot, and Frost.
- ENG112Y Major British Writers** 3L
An introduction to the study of literature through a chronological consideration of no fewer than eight and no more than twelve works by major authors from the middle ages to the present day. Texts: Chaucer, the General Prologue to *The Canterbury Tales* and one tale; Shakespeare, *Antony and Cleopatra*; Milton, *Paradise Lost*, Books I, II, IV, IX; Congreve, *The Way of the World* or Shaw, *St. Joan*; two novels, at least one before 1900. In addition, no fewer than four of Spenser, *The Faerie Queene*, Book I; Donne, selected works; Dryden or Pope, selected works; Swift, *Gulliver's Travels*; Wordsworth or Keats, selected works; Tennyson or Browning, selected works; Yeats or Eliot, selected works.
- ENG165Y English Literature: Forms and Approaches** 3L
An introduction to the study of literature through works representative of the genres (e.g., drama, poetry, and novel) and through an examination of critical approaches that have been developed for gaining a fuller understanding of literary works. At least ten but not more than twelve works will be studied. Texts: Shakespeare, *Hamlet* or *King Lear*; Congreve, *Love for Love* or *The Way of the World*; selections from the poetry of Donne or Marvell; More, *Utopia* or Swift, *Gulliver's Travels*; selections from the poetry of Keats or Hopkins; Fielding, *Joseph Andrews* or Austen, *Emma*; Forster, *A Passage to India* or Faulkner, *The Sound and the Fury*. At least three more works will be chosen to extend the range of forms and make possible additional approaches.
- ENG200Y Old English Language and Literature** (Offered every third year) 3L
A study of the language, literature and culture of the Old English period as represented principally in the surviving poetry. The first half of the course will attempt to develop fluency in the reading of Old English by concentrating on the grammar, syntax and style of works in both prose and poetry. The second half of the course will treat further major texts in Old English literature.
- ENG206Y English Literature of the Renaissance** 3L
Poetry: Sidney, Spenser, Shakespeare, Donne, selected poems; Spenser, *The Faerie Queene*, selections; selected poems by at least three of Jonson, Herrick, Herbert, Marvell, Vaughan and Milton (minor poems); Milton, *Paradise Lost* (selections).
Drama: Three non-Shakespearean plays; Shakespeare, two plays.
Prose: At least three of Sidney, *Apology for Poetry*, Bacon, Donne, Milton, Browne. Supplementary reading: two or more of More, *Utopia*, Erasmus, *Praise of Folly*, Machiavelli, *The Prince*, Castiglione, *The Courtier* and Montaigne, *Essays*.
- ENG207Y Nineteenth-Century English Literature** 3L
Selected works by at least ten writers illustrating the range and characteristics of English poetry, fiction and prose in the nineteenth century. At least four authors will be chosen from Scott, Jane Austen, Wordsworth, Coleridge, Byron, Shelley, Keats; and at least four from Carlyle, Newman, Mill, Tennyson, Browning, Thackeray, Dickens, George Eliot, Ruskin, Arnold, Meredith, Hardy. Not more than three novelists will be studied.
- ENG212Y Shakespeare** 3L
Special study of not more than twelve plays by Shakespeare, including at least eight of the following: *Romeo and Juliet*; *A Midsummer Night's Dream*, *Richard II*; *Henry IV*, parts I and II; *Henry V*; *Twelfth Night*; *Measure for Measure*; *Hamlet*; *King Lear*; *Antony and Cleopatra*; *The Tempest*.

- ENG250Y American Literature (Formerly ENG150Y)** 3L
An introductory survey of major works in American Literature through the study of approximately twelve representative writers. Works to be studied include: Hawthorne, *The Scarlet Letter*; James, *The Portrait of a Lady*; Melville, *Moby-Dick*; Thoreau, *Walden*; Twain, *The Adventures of Huckleberry Finn*; selected poems by Whitman; a novel by Faulkner; selected poems by one of: Eliot, Frost, Stevens.
- ENG252Y Canadian Literature in English (Formerly ENG152Y)** 3L
An introductory survey of Canadian poetry, prose and drama. Texts: Moodie, *Roughing it in the Bush*; Ross, ed., *Poets of the Confederation*; Leacock, *Sunshine Sketches*; Grove, *Master of the Mill*; Laurence, *A Bird in the House*; Richler, *The Apprenticeship of Duddy Kravitz*; works by two of: Callaghan, MacLennan, Ross, Davies, Munro; poems by Pratt, Klein, Birney; at least four other works, one of which must date from before 1900 and two of which must be plays.
- ENG254H Canadian Drama** 3L
Canadian plays, with emphasis on major playwrights and on developments since 1940 but with attention also to the history of the theatre in Canada.
NOTE: Special Studies
ENG259H, 262H, and 263H are "special studies" half-courses which are offered for the 1979-80 Session only, subject to the general regulations of the Department of English. The Department reserves the right to withdraw these courses.
- ENG259H Children's Literature** 3L
An historical and critical study of works written for or appropriated by children. At least twelve works chosen from prose, poetry, and drama will be read, including *Pilgrim's Progress*, *Alice in Wonderland*, *Gulliver's Travels*, *Treasure Island*, *Midsummer Night's Dream*, *The Wind in the Willows*, *Huckleberry Finn*, *The Borrowers*, *The Hobbit* and nursery rhymes.
- ENG262H The Detective Novel** 3L
A survey of the genre based on a selection of authors (who transcend the limitations of the formula), among them: Wilkie Collins, Dickens, Chesterton, Dorothy Sayers, Dashiell Hammett, Raymond Chandler, J.D. Carr, and Faulkner.
- ENG263H Science Fiction** 3L
A survey emphasizing the genre as a vehicle for philosophical, political, religious, and ideological positions in the guise of entertainment. Among the authors studied will be: Poe, Verne, H.G. Wells, Olaf Stapledon, E.A. Abbot, Jack London, Huxley, Orwell, A.C. Clarke, and John Wyndham.
- ENG302Y English Poetry and Prose, 1500-1600** 3L
Poetry: Wyatt and Surrey, Sidney, Marlowe, Shakespeare, Spenser (including *The Faerie Queene*, Book I; at least two other Books; and the *Mutabilitie Cantos*), and Donne. Other poets may be added. Prose: More, *Utopia*; Sidney, *Apology for Poetry*. Selections from at least two of: Elyot; Ascham; Hakluyt; Hooker; Lyly; Sidney, *Arcadia*; Nashe and Deloney. Supplementary readings from such authors as Erasmus, Castiglione, Machiavelli and Ariosto may be prescribed. *Prerequisite*: One course in English.
- ENG304Y English Poetry and Prose, 1600-1660 (Offered in alternate years)** 3L
Poetry of Donne, Jonson and their successors; Milton. Prose from writers of the period e.g. Bacon, Browne, Burton, Milton, Traherne. *Prerequisite*: One course in English.
- ENG306Y English Poetry, Prose and Drama, 1660-1800** 3L
Selections from the works of at least ten of the following: Addison, Boswell, Burke, Burns, Butler, Collins, Congreve, Cowper, Defoe, Dryden, Gay, Gibbon, Goldsmith, Gray, Halifax, Johnson, Pepys, Pope, Prior, Rochester, Sheridan, Smart, Steele, Swift, Thomson, Horace Walpole, Wycherley, Young; with particular attention to Dryden, Pope, Swift and Johnson. *Prerequisite*: One course in English.

- ENG308Y **Romantic Poetry** 3L
Special study of Blake, Wordsworth, Coleridge, Byron, Shelley, Keats; brief selections from other poets such as Crabbe, Scott, Landor, Clare; selections from relevant prose works. *Prerequisite*: One course in English.
- ENG312Y **Chaucer** 3L
The Canterbury Tales; *Troilus and Criseyde*; selections from Chaucer's other works. *Prerequisite*: One course in English.
- ENG318Y **Major American Authors to 1900** (Offered in alternate years) 3L
A close study of works by at least four and no more than six authors. At least three of the authors will be drawn from the following list: Dickinson, Emerson, Hawthorne, James, Melville, Twain, and Whitman. *Prerequisite*: One course in English.
- ENG319Y **Major American Authors Since 1900** 3L
A close study of works by at least four and no more than six authors. At least three of the authors will be drawn from the following list: Eliot, Faulkner, Fitzgerald, Frost, Hemingway, O'Neill and Stevens. *Prerequisite*: One course in English.
- ENG322Y **Fiction Before 1832** 3L
At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Austen and Scott. Three of the works will be: Richardson, *Pamela* or *Clarissa*; Fielding, *Joseph Andrews* or *Tom Jones*; Sterne, *Tristram Shandy*. *Prerequisite*: One course in English.
- ENG324Y **Fiction, 1832-1900** 3L
At least twelve works, including one or more by each of Dickens, Thackeray, Trollope, Emily Bronte, George Eliot and Hardy. *Prerequisite*: One course in English.
- ENG328Y **Fiction, 1900-1950** 3L
At least twelve works, including one or more by each of James, Conrad, Joyce, Lawrence and Faulkner. *Prerequisite*: One course in English.
- ENG332Y **English Drama to 1642** (Offered in alternate years) 3L
Examples of the miracle play, the morality play, the Tudor interlude, early Tudor and Elizabethan tragedy, comedy and romance; two or more plays by Marlowe; Shakespeare: at least seven of the following: *Love's Labour's Lost*, *Richard III*, *Much Ado About Nothing*, *As You Like It*, *Troilus and Cressida*, *Othello*, *Macbeth*, *King Lear*, *Coriolanus*, *The Winter's Tale*; two plays by Jonson; and a selection of works by at least six other Jacobean dramatists. *Prerequisite*: One course in English.
- ENG338Y **Modern Drama** 3L
A minimum of twenty representative modern plays; one or more by at least five of the following: Ibsen, Chekhov, Shaw, Synge, Yeats, O'Casey, O'Neill, Eliot, Beckett, Pinter. *Prerequisite*: One course in English.
- ENG348Y **Modern Poetry** (Offered in alternate years) 3L
Special study of Hopkins, Yeats, Pound, Eliot, Stevens; selections from other poets. *Prerequisite*: One course in English.
- ENG354Y **Modern Canadian Poetry** 3L
Fifteen or more poets from the twentieth century, at least six to be chosen from the following: Pratt, F.R. Scott, A.J.M. Smith, Birney, Layton, Livesay, Klein, Avison, Purdy, Souster, Reaney. *Prerequisite*: One course in English.
- ENG356Y **Modern Canadian Fiction in English** (Formerly ENG256Y) 3L
A minimum of fifteen works including at least one by six of the following authors: Duncan, Leacock, Grove, Callaghan, MacLennan, Buckler, Lowry, Richler, Laurence, Davies. A selection of short stories may be included.

- ENG369Y **Seminar in Writing** (Offered in alternate years) 3L
Restricted to students who in the opinion of the Department show special aptitude. One section of this course will normally be devoted to a workshop in play-writing and the analysis of plays. *Prerequisite*: One course in English and permission of instructor.
- ENG390Y **Individual Studies**
A scholarly project chosen by the student and supervised by a member of staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project titles must be approved by a committee of the Department of English by April 1 in the previous year. Proposal forms are available in Room 235 (North Building). *Prerequisite*: Three courses in English.
- ENG391Y **Individual Studies**
A project in creative writing chosen by the student and supervised by a member of the staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project titles must be approved by a committee of the Department by April 1 in the previous year. Proposal forms are available in Room 235 (North Building). *Prerequisite*: Three courses in English, including ENG369Y.
- ENG419Y **Studies in 20th-Century Literature** 3S
Prerequisite: Three courses in English, including ENG108Y/328Y/338Y/348Y
- ENG466Y **Comprehensive Studies**
Supervised reading for three substantial examinations, one each on general literary history, practical and theoretical literary problems, and an area of the student's choice. *Prerequisite*: Open only to students who have obtained standing in a least fourteen full courses, at least three of which must be in English.
- ENG467Y **Seminar in Theory and Criticism of Literature** 3S
For description consult Departmental brochure. *Prerequisite*: Normally three previous courses in English.
- ENG469Y **Senior Essay**
A scholarly project chosen by the student and supervised by a member of the staff. All project titles must be approved by a committee of the Department of English by April 1 in the previous year. Proposal forms are available from Room 235 (North Building). *Prerequisite*: Open only to fourth-year students, including those in part-time study, with at least three courses in English.

EARTH AND PLANETARY SCIENCE

(Geology and Geophysics)

Faculty Advisors: Professors H.C. Halls, M.M. Kimberley, D.R. Kobluk, G.W. Pearce, P.-Y.F. Robin, R.M. Stesky.

Earth and Planetary Science is concerned with the origin, evolution and structure of the Earth and planets, through the combined analysis of physical, chemical and biological processes. Recent theories of global dynamics and rapidly expanding horizons in lunar and planetary research are providing new insights into our understanding of the Earth's behaviour and its relationship to other planets.

In society, the Earth Scientist plays two important roles; he searches for materials of economic value and evaluates potential hazards in our natural environment. The exploration and development of natural resources constitutes one of the largest and most fundamental industries in Canada, and has always been a major employer of earth scientists, either as geologists or geophysicists. For

many years the occurrence of earthquakes, volcanic eruptions and other natural hazards have been monitored on a global scale. Recent advances in the understanding of these phenomena have enabled earth scientists to become more involved in seeking ways to predict or even control them.

A career in Earth Science may lead to work in many parts of the world, under a wide variety of field conditions. Laboratory studies are also needed to supplement field observations and often require the use of sophisticated analytical equipment.

Erindale offers a broad spectrum of courses in Earth and Planetary Science, encompassing the fields of geophysics, structural geology, sedimentology, petrology, stratigraphy and paleontology. Three specialist programmes are offered which may lead respectively to careers in Geology, Geophysics or Geochemistry and are outlined under Programmes of Study below. Intending specialists should adhere closely to the specified programmes, particularly in the basic science requirement, to insure their acceptance on the St. George Campus in their fourth year.

For those students not intending to specialize, a minor programme in Geology is also described under Programmes of Study below. Many of the courses offered in Earth and Planetary Science may be useful to students specializing in other fields such as Environmental Geography, Survey Science, Biology and Anthropology.

Specialist programme (Geology)

16 courses are required in a programme of at least 20 courses:

A minimum of 10 Geology courses (EPS/GLG) and 6 basic science courses are required. The basic science courses are defined as APM; BIO; BOT; CHM; CSC; MAT; PHY; STA; ZOO. The Geology specialist programme also requires participation in two field camps which are held following completion of the final examinations in the spring terms of the second and third years respectively.

To remain registered in the programme, students must have a cumulative average of 65% in all EPS/GLG (or substituted courses) and basic science courses of 200 level or higher. The following courses are specifically required:

EPS120Y or equivalent; a CSC half course (normally CSC139H); CHM118Y/150Y; MAT130Y/132Y/134Y/135Y/138Y/139Y; PHY110Y/118Y/135Y/140Y;

EPS220Y, 225Y; one full course equivalent from:

MAT214H/228H/235Y/239Y/260H/STA202H/212H/242Y;

EPS320Y/321Y, 322H, 332H, 345H/356H/370H.

The basic science requirement can be completed by:

BIO100Y/ 200 or higher level courses in APM; BOT; CHM; CSC; MAT; PHY; STA; ZOO, (except MAT204H and St. George courses BOT200Y/201Y; MAT220Y; PHY215H; ZOO200Y).

The Geology course requirement must include at least three 400-level full course equivalents. The following may be substituted for EPS/GLG-300 and 400-level courses: GGR311H; PHY324H, 338Y, 422H, 423H, 443Y; BIO354H; ZOO464Y.

A student will normally complete the specifically required 100-level basic science courses and EPS120Y in First Year; followed by EPS220Y, 225Y and the 200-level MAT/STA courses in Second Year so as to prepare adequately for the work of Third and Fourth Years.

Suggestions for a more completely defined programmes which place greater emphasis on one or other of geological fields or of the basic sciences are available on request from the faculty advisors.

Minor programme (Geology)

8 courses are required in a programme of at least 15 courses:

These consist of EPS120Y or equivalent; MAT130Y/132Y/134Y/135Y/138Y/139Y; CHM118Y/150Y; EPS220Y, 225Y

At least three EPS/GLG from the 300/400 series.

Suggestions for more complete description of minor programmes, particularly in respect to joint minors with biology, computer science, geography, surveying, etc. are available upon request from the faculty advisors.

Specialist programme (Chemistry and Geology)

16 courses are required in a programme of at least 20 courses:

This programme is intended for students with a strong Chemistry background and requires a minimum of 7 Geology and 9 Chemistry/Mathematics courses.

CHM150Y; EPS120Y; MAT130Y/132Y/134Y/135Y/138Y/139Y. PHY140Y recommended.
CHM215H, 220Y*/221Y; 230H, 240Y; EPS220Y; MAT235Y/239Y/APM251Y
CHM320Y/321Y, 330Y/340Y; EPS225Y/235Y, 320Y/321Y, 345H

In their final year specialists must include: GLG330H, GLG331H, GLG436H and one other 400Y-series GLG course, and one 300Y- or 400Y- CHM course.

* Deleted

Specialist programme (Geology and Physics)(Geophysics)

16 courses are required in a programme of at least 20 courses:

This programme is intended for students with a strong Mathematics-Physics background and requires a minimum of 7 ½ Geology/Geophysics and 7 ½ Mathematics/Physics courses.

CHM118Y/150Y; EPS120Y; MAT135Y/138Y/139Y; PHY135Y/140Y.

Recommended CSC139H

APM251Y; EPS220Y, EPS235Y; MAT239Y; PHY230Y, PHY254Y

APM311H; EPS322H, EPS332H, EPS337H, EPS334H/338H; Recommended EPS320Y/321Y, 345H, 365H; PHY220H

In their final year specialists must include one 400- series PHY course and 2 ½ GLG/EPS courses from the 300- or 400- series in their programme.

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| EPS100H | The Restless Earth
A course suitable for students in Humanities and Social Sciences which focuses on the structure and evolution of the Earth, its Moon, and other planets in the Solar system. Plate tectonics, and space missions to other planets have recently revolutionized our understanding of our own planet and its relation to its neighbours in space.
<i>Exclusion:</i> EPS120Y. | 2L, 1T |
| EPS110H | Man and the Earth
A course suitable for students in Humanities and Social Science, which emphasizes the impact of natural earth processes on human activity. Topics include: a history of geological thought; the origin of man, ice ages; the monitoring, prediction and control of earthquakes and volcanic eruptions; the search for oil and mineral wealth; the application of Earth science to Archeology and Medicine. | 2L, 1T |
| EPS115H | Life and the Oceans
A broad overview of the history of life and the oceans spanning the present back to approximately 3,500 million years. The main thrust is the marine ecosystem, animal and plant evolution in the oceans, and the relationships between organisms, and the physical ocean environment throughout the history of life on earth. Course suitable for students in Humanities, Social Sciences, Physical and Biological Sciences. <i>Recommended preparation:</i> high school biology and/or geography/geology. | 2L |
| EPS119H | Elementary Mineralogy
The Earth's minerals show a wide range in colour, crystal form and other physical properties. This course discusses how minerals form, where they occur and how they may be identified. Lectures are illustrated with specimens of common rock-forming minerals as well as the rare gem and ore varieties. <i>Exclusion:</i> EPS120Y. | 2L, 1T |
| EPS120Y | Introduction to Earth and Planetary Science
An introduction for Science students to the study of planetary evolution and behaviour, through examination of the shape, motion and internal constitution of the Earth and Moon, and the physical and chemical processes that control their surface and internal characteristics. The course includes several field excursions, and is recommended for anyone with a serious or peripheral interest in practical Earth Science. <i>Exclusion:</i> EPS100H, EPS119H. <i>Prerequisite:</i> Grade 13 MAT R&F/CHM/PHY/BIO. | 2L, 3P |
| EPS124H | Geology Laboratory
This course consists of the laboratory section of EPS120Y. Those students who take EPS100H and who achieve a satisfactory mark will be eligible upon permission of the Department to enter EPS Specialist Programmes by taking EPS124H. <i>Exclusion:</i> EPS120Y. <i>Prerequisite:</i> Any two of EPS100H, 110H, 115H, 119H. | 3P |

- EPS220Y Mineralogy and Petrology** 2L, 3P
First term outlines the principles of mineralogy, including crystallography, physical and chemical properties of minerals and descriptive mineralogy of some 80 species. Second term includes optical mineralogy, use of the petrographic microscope and the description of igneous, sedimentary and metamorphic rocks in thin section and hand specimen. *Prerequisite:* EPS120Y. *Corequisite:* CHM118Y/150Y.
- EPS225Y Stratigraphy and Paleontology** 2L, 3P
The concept of geologic time is developed from a theoretical basis, and by application of the principles of stratigraphy to the local section and to stratigraphic correlation. The major theme of physical earth history and biologic evolution is developed by an integrated examination of the geologic rock record and the fossil record of plants and animals. *Prerequisite:* EPS120Y/P.I.
- EPS235Y Physics and Chemistry of the Earth and Planets** 2L, 2P, 1T
Gravity, magnetism, acoustics, dynamics, electromagnetism, thermal physics and geochemistry are applied to a study of the major external and internal features of the Earth and Planets. *Prerequisite:* PHY110Y/118Y/135Y/140Y, EPS120Y.
- EPS320Y Petrology (Formerly EPS321Y)** 2L, 3P
Uses hand-specimens and microscope petrography in the description, classification and interpretation of sedimentary, igneous and metamorphic rocks. *Prerequisite:* EPS220Y, CHM118Y/150Y.
- EPS322H Structural Geology I** 2L, 3P
An introductory study of past and present deformation in the Earth's crust. The course examines methods of describing and classifying rock structures such as folds and faults and surveys briefly the mechanical behaviour of rocks and minerals. The development of structures such as shields, trenches and mountain chains is then examined within a global tectonic framework, using selected examples. Practical work includes a one-day field trip. *Prerequisite:* EPS120Y, EPS220Y/P.I.
- EPS325Z Field Course I**
A field course in the Elliot Lake-Sudbury area emphasizing elementary mapping methods and basic field techniques applicable to structural-stratigraphic studies. A fee, recently \$90, is charged to cover part of the cost of transportation and accommodation. The course is conducted immediately following the conclusion of the Spring examinations. *Prerequisite:* EPS220Y, EPS225Y.
- EPS330H Phase Diagrams For Geologists** 3L
Application of phase equilibrium to the study of minerals, rocks and ores. Topics include the phase rule, multi-component diagrams as applied to igneous rocks, systems under confining pressures, and reactions involving water, carbon dioxide, oxygen and sulfur relating to metamorphic rocks and ore deposits. *Prerequisite:* CHM118Y/150Y/P.I. EPS220Y.
- EPS332H Structural Geology II** 2L, 3P, 1T
A continuation of EPS322H with greater emphasis on strain analysis and the physics of rock deformation. The course discusses the dynamic interpretation and tectonic significance of rock fabrics, folds, joints, fractures and faults. Structures associated with emplacement of igneous rocks are also considered. *Prerequisite:* EPS322H, PHY110Y/118Y/135Y/140Y.
- EPS334H Advanced Physics of the Earth** 2L, 1T
A continuation of EPS235Y, emphasizing the quantitative physical description of the Earth. Topics covered in detail are: radiometric dating of rocks; the rotation and dynamics of the Earth; the Earth's gravitational and magnetic fields; and the internal structure of the Earth from seismic evidence. Extensive use is made of potential methods and solution of partial differential equations. *Prerequisite:* EPS235Y/P.I.

- EPS337H Exploration Geophysics I** 2L, 3P
An introduction to the geophysical methods used in the search for mineral deposits. Basic principles, instrumentation, field procedures and elementary interpretation techniques, are outlined for gravity, magnetic and seismic methods. Practical work will emphasize field surveys. *Prerequisite:* EPS220Y, PHY110Y/118Y/135Y/140Y.
- EPS338H Exploration Geophysics II** 2L, 3P
A continuation of EPS337H with emphasis on electrical and electromagnetic methods. Practical work consists of laboratory exercises and experiments designed to simulate natural situations. For those students who have completed the course and EPS337H, a series of weekend field trips are available, arranged by the Geophysics Division on the St. George Campus, just prior to the beginning of the fall term. *Prerequisite:* EPS220Y, PHY110Y/118Y/135Y/140Y, EPS337H. *Recommended preparation:* PHY230Y.
- EPS345H Sedimentology** 2L, 3P
Processes of weathering, chemical sedimentation, and diagenesis are related to theoretical geochemistry. Petrographic characteristics of sedimentary rocks are used as indicators of physical and chemical genetic processes. *Prerequisite:* EPS220Y, (CHM215H + 230H)/P.I.
- EPS365H Marine Geology** 2L, 1T
The morphology, structure and evolution of the ocean basins are examined within a global tectonic framework. *Prerequisite:* EPS220Y.
- EPS370H Invertebrate Paleocology and Dynamics** 2L, 3P
An introduction to the basic principles of paleocology and ecology in the ocean realm from the present back in time to about 600 million years. A modern and ancient analog approach is used to illustrate ancient ecosystem behaviour using living systems. Among topics treated are deep ocean basin communities, shallow shelf communities, and tropical reef environments. Field trips in the Ontario region and a trip to the Caribbean are planned. *Prerequisite:* EPS225Y. *Recommended preparation:* BIO100Y.
- EPS425Z Field Course II**
A two week course held in the Tweed-Hungerford area of Ontario. One week is devoted to instruction and practice on basic geological mapping and one week to detailed structural analysis. A fee, recently \$100.00, is charged to cover part of the cost of meals and accommodation. The course is held immediately following the conclusion of the Spring examinations. *Prerequisite:* EPS321Y, EPS322H.
- EPS471Y Research Project**
A student research programme under the supervision of the staff. Copies of typed reports to be submitted by April 1st. *Prerequisite:* Any 2 full course equivalents from the EPS300- series, plus a 75% average in the last 5 courses taken.

FINE ART

Faculty Advisor: Professor L. Eleen

The study of works of art provides insight into the nature of the societies in which they were created, and is one of the ways of gaining understanding of human culture in general. More specifically, the creative process leading to the making of a work of art is a subject worthy of study in its own terms. Students of Art History and Studio Art attempt to comprehend and interpret this process through learning critical and research methods and through actual practice. The subjects of their study are the visual arts: architecture, sculpture, painting and the minor arts. Such studies also complement related disciplines, of which history, philosophy and literature are examples.

Specialization in Fine Art can lead to professional work in galleries or museums, teaching at the high school or university levels, careers in illustration and design, or independent artistic activities. For post-graduate work in the History of Art, a reading knowledge of French and German and, depending upon special interests, Italian or Latin or Greek, is required; this can be most easily obtained during the undergraduate years.

Erindale College offers courses in both Art History (FAH) and Studio Art (FAS). The student can work toward a specialization in these areas, or follow a programme of combined Art History and Studio courses. (See the Calendar of the Faculty of Arts and Science, University of Toronto, for a description of the requirements for specialization in Art History.)

A special programme in Art and Art History is conducted in co-operation with Sheridan College of Applied Arts and Technology. After three years of a combined Art History and Studio Art course the student will obtain a B.A. degree in preparation for entering the Type B Certificate course at the Faculty of Education, for further studies in art, or in preparation for a career. Credits in Studio Art are obtained by enrolling for those courses which are held at Sheridan College of Applied Arts and Technology. Selected students enrol for five credits in Studio Art during their degree programmes. The remaining arts and science credits will be taken from the regularly scheduled courses offered by Erindale College, and it is required that a minimum of three of these courses be in Art History.

It should be noted that all of the courses at Sheridan College are half courses. Ten of these half courses must be taken in order to complete five Studio credits.

Those students who hope to use the Studio credits to complete a four-year specialization in Fine Art (Studio) must apply to the Department of Fine Art at the St. George Campus, where each application will be judged on an individual basis.

Students who seek to enter the Art and Art History Programme or to specialize in Fine Art are required to consult and enrol with the Faculty Advisor.

In order to be eligible for enrolment in a Sheridan FAS course, students must be members of the art and art history programme. They must make certain that their names are on a master list in the Registrar's Office, Room 216, North Building.

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| FAH101Y | Greek and Roman Art | 3L |
| | The art of Greece and Rome. The importance of architecture and the arts as characteristic expressions of their age. Detailed study of the outstanding monuments. | |
| FAH102Y | Medieval Art and Architecture (Offered in alternate years) | 2L, 1T |
| | A selective survey of the art of the Middle Ages. The study of Early Christian, Byzantine, and Early and Late Medieval art and architecture will be combined with a more general introduction to the language of visual expression and its interpretation. | |
| FAH200Y | European Art from 1400 to 1750 (Offered in alternate years) | 2L, 1T |
| | Major forms of expression in the visual arts - architecture, painting and sculpture - with special emphasis on visual analysis. Political, religious and general cultural movements. <i>Prerequisite:</i> FAH101Y/102Y. | |
| FAH210Y | European Art from Neo-Classicism to 1940 (Offered in alternate years) | 2L, 1T |
| | Developments in the main tradition of Western painting and sculpture. <i>Exclusion:</i> FAH208H, 209H, 283H, 284H. <i>Pre or Corequisite :</i> FAH200Y. | |
| FAH211H | Architecture in the Western World Since the Birth Of Neo-Classicism | 2L |
| | (Offered in alternate years)
A survey of principal developments in the history of Western architecture since the mid-eighteenth century. <i>Recommended preparation:</i> FAH200Y. | |
| FAH256H | Ancient Rome | 2L |
| | Development of the city of Rome, from early times to the Late Empire. Buildings and monuments and their place in the life of the ancient city. Readings in topography, art and architecture, and history. | |

- FAH267H The Graphic Arts (Offered in Alternate Years)** 2L
A history of the medium of print as art in Western tradition since 1400. Book illustration; the role of prints in disseminating images and styles among the arts.
- FAH310Y Painting and Sculpture in Canada and the United States** 3L
(Offered in alternate years)
These arts in North America since the late 17th century: their relationship to European traditions, the growth of distinctive national styles, and international interaction. *Prerequisite:* FAH200Y/210Y/301Y/287H.
- FAH315H Realism** 2S
An examination of this mid-nineteenth century movement in French painting and sculpture with particular emphasis on Courbet, Millet, the Barbizon School, Daumier and Manet. *Pre or Corequisite:* FAH210Y/283H/301Y and P.I. *Recommended preparation:* A reading knowledge of French.
- FAH318H Vincent Van Gogh and Nineteenth Century European Painting** 2S
The role of this artist in relation to the Romantic, Realist, Impressionist, Neo-Impressionist and Symbolist movements in European painting. *Prerequisite:* FAH210Y/301Y and P.I. *Recommended preparation:* A reading knowledge of French, German or Dutch.
- FAH319H The Expressionist Tradition in 20th-Century Painting and Sculpture** 2S
A continuation of FAH318H, the course concentrates upon such twentieth century masters as Matisse, Kirchner, Kandinsky, Nolde, Arp, Miro, Pollock, Borduas and Riopelle. *Pre or Corequisite:* FAH210H/301Y and P.I. *Recommended preparation:* A reading knowledge of French or German.
- FAH322H Cubism and Related Movements** 2S
An investigation of the birth and development of Cubism, Futurism, and Orphism in Europe, America and Canada. *Prerequisite:* FAH210Y and P.I. *Recommended preparation:* A reading knowledge of French or Italian.
- FAH326Y Italian Medieval Painting and Sculpture** 2S
A selective study of mural painting, manuscript illumination, panel painting and sculpture in Italy between the eleventh and the fourteenth centuries. The regional schools will be defined and the careers of influential individuals in the latter part of the period will be examined. *Prerequisite:* FAH102Y. *Recommended preparation:* A reading knowledge of Italian or German.
- FAH330Y Raphael and Michelangelo as Painters** 2S
An investigation of the late pictorial works of Raphael and Michelangelo which completed the decoration of the Sistine Chapel, and also of Michelangelo's Peter and Paul cycles in the adjacent Pauline Chapel. The influence of these works on both Northern and Southern European paintings will be considered. *Prerequisite:* FAH200Y. *Recommended preparation:* a reading knowledge of German and/or Italian.
- FAH331H Fifteenth and Sixteenth Century Italian Sculpture (Offered in alternate years)** 1L, 1T
The development of Renaissance sculpture from Ghiberti to Michelangelo, with an emphasis on the works of Donatello and Michelangelo. The impact of the latter's achievement on the succeeding generation of Mannerist sculptors such as Cellini, Ammanati and Sansovino. *Prerequisite:* FAH200Y. *Recommended preparation:* A reading knowledge of Italian or German.
- FAH332H Studies in Baroque Painting** 1L, 1T
Its origins in North Italian painting and its subsequent manifestation in the aesthetic of Caravaggio, Annibale Carracci and their followers throughout Europe. Seventeenth century academies of art will also be considered. *Prerequisite:* FAH200Y. *Recommended preparation:* A reading knowledge of Italian or German.

- FAH335H Central Plan Architecture from the 15th to the 17th Century** 2S
(Offered in alternate years)
Central plan buildings of the 15th and 16th centuries (Brunelleschi's Sta. Maria degli Angeli, Bramante's Tempietto and Palladio's Villa Rotonda), and of Borromini's "pinched oval" plan churches. *Prerequisite:* FAH102Y, 200Y and P.I. *Recommended preparation:* A reading knowledge of German, French and/or Italian.
- FAH346Y Art and Literature** (Offered in alternate years) 2S
Consideration of various types of illustrative art, including illustrated texts and history and genre painting, and, where appropriate, of the relationship of text to picture. The problems chosen for study will be selected from the late antique to the modern period. *Prerequisite:* Any three Art History courses and P.I.
- FAH365H The Medieval City** (Offered in alternate years) 2L
A study of the medieval city, seen within its intellectual, social and political context. The course will concentrate on the forms and uses of public buildings, religious and secular, and of domestic architecture, and will include a consideration of the patronage and practice of the arts as an aspect of town life. *Exclusion:* FAH265H. *Prerequisite:* FAH102/P.I.
- FAH412H Problems in Modern Architecture** (Offered in alternate years) 2S
Special studies in the sources, development and significance of characteristic architectural trends, with special reference to Canadian architecture. *Prerequisite:* FAH211H and P.I.

STUDIO ART COURSES (Taught at Sheridan College)

In order to be eligible for enrolment in a Sheridan FAS course, students must be members of the Art and Art History Programme. They must make certain that their names are on a master list in the registrar's office.

The programme consists of 5 credits (2 in each of the first 2 years, 1 in the third). No more than 5 credits may be taken. It should be noted that all of the courses listed are half-courses, and that they are subject to limited enrolment. It is required that students in the Combined Programme maintain a balance between academic and studio courses.

- FAS143H Drawing I** (DGE 6150 Sheridan) 3P
An introduction to the graphic arts combining practice with analysis of draughtsmanship in stylistic and technical terms. *Corequisite:* One full FAH course.
- FAS145H Painting I** (PGE 6170 Sheridan) 3P
An exploration of various painting materials, discovering the characteristic properties of each. The values of colour, tone, texture and line. *Corequisite:* One full FAH course.
- FAS146H Design I** (DNE 6140 Sheridan) 3P
The elements of 2-dimensional design, colour, basic typography, layout, and their utilization within Graphic Design. Exercises and projects demanding the increasingly competent use of basic graphic designers' tools and media. A problem-solving approach based on awareness of the elements of design. *Corequisite:* One full FAH course.
- FAS147H Photography I** (PYE 6150 Sheridan) 3P
The potential of photography as a creative communication form. Studio and classroom instruction alternating with darkroom practices. Various camera systems will be discussed. *Corequisite:* One full FAH course.

- FAS244H Printmaking I (PME 6240 Sheridan)** 3P
An introductory course in printmaking, emphasizing the techniques of linoblock, woodblock, collagraph and etching. Familiarity with materials and techniques, through practice and through the study of the work of printmakers of past and present. *Prerequisite:* FAS145H and FAS146H. *Corequisite:* One full FAH course.
- FAS245H Drawing and Painting II (DGE 6270 Sheridan)** 3P
The student will be encouraged to isolate various ideas and senses in graduated steps so as to concentrate on a single important aspect, i.e. movement, form, solidity, structure, anatomy, proportion and composition. Each student will be encouraged to discipline himself by doing certain exercises to increase insight, observation and understanding. Stress will be placed on experimentation. *Prerequisite:* FAS145H. *Corequisite:* One full FAH course.
- FAS246H Design II (DNE 6240 Sheridan)** 3P
The student will continue the study of text types and applications. The topics will include the history and use of the symbol, signage, magazine layout, book design, illustration, and use of photography in the design field. *Prerequisite:* FAS145H. *Corequisite:* One full FAH course.

ONE OF:

- FAS247H Photography II (PYE 6250 Sheridan)** 3P
The aims of the course are to develop further the technical skills acquired during the first year, to investigate and experiment with the historical and conceptual approaches to the photographic medium, and to encourage the personal style of each student. *Prerequisite:* FAS147H. *Corequisite:* One full FAH course.

OR

- FAS248H Three-Dimensional Design (TDE 6270 Sheridan)** 3P
This course explores the application of principles of design to art in three dimensions. *Prerequisite:* FAS146H *Corequisite:* One full FAH course.

ONE OF:

- FAS344H Sculpture A (Ceramics)(CSE 6370 Sheridan)** 3P
This course provides students with a knowledge of ceramics, guiding them towards a personal means of expression. The historical evolution of shapes, techniques and materials in various cultures will be discussed. *Prerequisite:* FAS246H. *Corequisite:* One full FAH course.

OR

- FAS345H Sculpture B (Metal)(MLE 6370 Sheridan)** 3P
This course provides students with a basic knowledge of the techniques of working metal, including copper and steel, in both two- and three-dimensional designs. *Prerequisite:* FAS246H. *Corequisite:* One full FAH course.

ONE OF:

- FAS346H Drawing and Painting III** (DGE 6370 Sheridan) 3P
 A continuation of FAS245H, Greater attention will be given to individual development in the perceptual and conceptual understanding of art. *Exclusion:* FAS344H.
Prerequisite: FAS245H. *Corequisite:* One full FAH course.

OR

- FAS349H Printmaking II** (PME 6340 Sheridan) 3P
 Continuing the historical and practical approaches to the problems of printmaking, the course will investigate advanced relief and intaglio printing procedures. The students will be requested to establish written guidelines as criteria for assessment of their prints. *Prerequisite:* FAS244H. *Corequisite:* One full FAH course.

FRENCH

Faculty Advisor: Professor M.-P. Ducr  tet

The impact of French culture on the world as we know it has been profound and lasting. Indeed, no understanding of European and North-American patterns of thought is complete without a prior understanding of the contributions made to these patterns by Frenchmen on both sides of the Atlantic. The French programme at Erindale College offers students a wide range of courses designed to provide the basis for the study of our French heritage.

For students wishing to pursue a programme leading to a high-level of competence in French, we offer two series of language courses (FRE101Y, 121Y, 161Y, 261Y and 361Y, for non-specialists; FRE171Y, 271Y, 371Y, for specialists) using modern methods and maximizing the individual's contact with his instructor. Native speakers of French are not permitted to take for credit FRE161Y, FRE171Y, FRE261Y, nor FRE271Y. Such students, however, will be admitted to any courses for which FRE171Y and FRE271Y are prerequisites.

For those wishing a full programme of French Studies, our introductory and upper-year offerings in linguistics and literature completely satisfy the requirements for specialist certification in French Language and Literature. These offerings include the study of French as a language system, the study of various critical approaches to literature, and the study of both French and Qu  bécois literatures.

In addition to its usefulness as a means of communication, French can also lead to careers in the civil service, international agencies, translation and interpretation, and teaching, as well as to graduate study.

NOTE: *Students who began their programme prior to 1978-79 may elect to follow these requirements, or those which were in force when they enrolled, but may not combine the two.*

Specialist programme

10 courses required in a programme of at least 20 courses:

Successful completion of the University French Specialists' written and oral examinations (normally prepared through FRE171Y, 271Y, 371Y) FRE140Y or, at an early stage, a literature course from another department which in combination with FRE171Y serves as a prerequisite for 200-series literature courses.

One of FRE272Y, 375Y, 475Y or Independent Study on a linguistic or stylistic topic. One of FRE220Y, 322Y or Independent Study in the area of pre-1800 literature. One full course equivalent from FRE224Y, 254H, 354H, 364Y, 366Y, 423H, 424H or Independent Study in the area of post-1800 literature.

FRE230Y or Independent Study in the area of Québécois literature. Four courses from the 300-or 400 series of which at least one must be from the 400 series (excluding FRE471Y). Obtain a mark of at least 70% in each of seven French courses.

Minor programme

7 courses required in a programme of at least 15 courses:

See "Note" above.

Successful completion of the University French Specialists' written and oral examinations (normally prepared through FRE171Y, 271Y, 371Y)

FRE140Y or, at an early stage, a literature course from another department which in combination with FRE171Y serves as a prerequisite for 200-series literature courses. One of FRE272Y, 375Y, 475Y or Independent Study on a linguistic or stylistic topic.

One of FRE220Y, 322Y or Independent Study in the area of pre-1800 literature. One full course from FRE224Y, 230Y, 254H, 354H, 364Y, 366Y, 423H, 424H, or Independent Study in the area of post-1800 literature.

COURSES NOT REQUIRING GRADE 13 FRENCH

These courses, along with FRE161Y, 261Y and 361Y, cannot be counted toward specialization in French, Modern Languages and Literature, or a minor in French.

FRE101Y Introductory French I 3S, 2P
A basic course in spoken and written French; comprehension, speaking, reading, and writing. Not open to students who have studied French in secondary school. *Exclusion:* Not open to native speakers of French.

FRE121Y Introductory French II 3S, 2P
A course in spoken and written French, reinforcing oral/aural competence, reading comprehension, and writing skills. Successful completion of this course will meet the prerequisite for FRE161Y and FRE171Y. *Exclusion:* Grade 13 French. Not open to native speakers of French. *Prerequisite:* FRE101Y, or some background in secondary school French.

COURSES REQUIRING GRADE 13 FRENCH

FRE140Y Studies in Modern French and Québécois Literature 2L, 1T
A practical introduction to the techniques of literary criticism and analysis, based on a detailed study of specific works selected from the novel, drama and poetry of the 19th and 20th centuries. *Corequisite:* FRE161Y/FRE171Y.

FRE161Y Practical French I 3S
Intended for students primarily interested in other fields of study who wish to maintain and improve their general knowledge of French. Major stress will be placed on the development of aural/oral skills, acquisition of vocabulary, reading comprehension, rather than on intensive grammar. *Exclusion:* Not open to native speakers of French; FRE171Y. *Prerequisite:* Grade 13 French/FRE121Y.

FRE171Y Language Practice I 3S, 2P
A course designed to help students reinforce and develop those language skills (reading, understanding, writing, speaking) which are necessary for active participation in courses offered by the department. *Exclusion:* Not open to native speakers of French. *Prerequisite:* Grade 13 French/FRE121Y.

200-SERIES COURSES

NOTE:

The general prerequisite is FRE171Y; additional prerequisite for literature courses is FRE140Y (FRE140Y may also be taken concurrently with a 200-series literature course) or a literature course taken from another department.

- FRE220Y The Literature of Classicism** (Offered in alternate years) 1L, 1T
Major writers of the 17th century with emphasis upon aesthetic and moral characteristics which constitute "classicism"
- FRE224Y The Literature of Romanticism** (Offered in Alternate Years) 1L, 1T
French Romantic poetry, novels, and plays, of the eighteenth and nineteenth centuries. Some attention to the origins of the movement, as well as to its later manifestations.
- FRE230Y The Literature of Québec** 1L, 1T
Selected prose, drama and poetry of the 20th century using various critical approaches. *Exclusion:* FRE332Y.
- FRE254H Drama from 1800 to 1900** (Offered in Alternate Years) 1L, 1T
Major plays; critical approaches to theatre. *Exclusion:* FRE354Y.
- FRE261Y Practical French II** 3S
Similar to FRE161Y on a more advanced level. *Exclusion:* Not open to native speakers of French; FRE271Y. *Prerequisite:* FRE161Y/171Y.
- FRE271Y Language Practice II** 3S, 1P
A course designed further to improve the student's competence in written and oral French. *Exclusion:* Not open to native speakers of French.
- FRE272Y The Structure of Modern French: an Introduction** 1L, 1T
A description of modern French: the phonological, morphological and syntactical systems of the language.

300-SERIES COURSES

NOTE:

The general prerequisite, except for FRE361Y and FRE371Y, is at least three French courses (other than FRE101Y, 121Y, 161Y or 261Y). In the case of literature courses, one of these must be FRE140Y (FRE140Y may also be taken concurrently with a 300-series literature course) or a literature course from another department. Some courses carry specific prerequisites.

- FRE322Y Literature of the Enlightenment** (Formerly FRE222Y) 1L, 1T
(Offered in alternate years)
A study of the revolution in social, political, religious and intellectual values which characterized the literature of the 18th century.
- FRE354H Drama from 1900 to 1950** 1L, 1T
Major plays, stressing the evolution toward a more stylized, poetic and experimental form; critical approaches. *Exclusion:* FRE354Y.
- FRE361Y Practical French III** 3L
Similar to FRE261Y on a more advanced level. *Exclusion:* FRE371Y. *Prerequisite:* FRE261Y/271Y.
- FRE364Y Prose Fiction from 1800 to 1900** (Offered in alternate years) 1L, 1T
A study, through the close analysis of specific texts, of the ways in which such major writers as Balzac, Stendhal, Flaubert, Maupassant and Zola developed the techniques of the novel while exploring such varied themes as ambition, alienation and class struggle.
- FRE366Y Prose Fiction from 1900 to 1950** 1L, 1T
The ways in which twentieth-century writers have refined traditional forms of the novel, experimented and innovated, while exploring the diverse spiritual, intellectual and psychological conflicts of the first half of this century.

FRE371Y Language Practice III 3S, 1P
Further work in written and spoken French, with emphasis placed on both literary and informal usage. *Prerequisite:* FRE271Y.

FRE375Y Comparative Stylistics 1L, 1T
A comparative study of the characteristics of French and English expression and how they pertain to the problems of translation. English-French, French-English exercises and translation. *Prerequisite:* FRE271Y.

400-SERIES COURSES

NOTE:

The general prerequisite is at least five French courses (other than FRE101Y, 121Y, 161Y, 261Y or 361Y). In the case of literature courses, one of these must be FRE140Y (FRE140Y may also be taken concurrently with a 400-series literature course) or a literature course from another department. Some courses carry specific prerequisites.

FRE423H Contemporary Theatre (Offered in Alternate Years) 1L, 1T
Drama since 1950 with special reference to the *anti-theatre*. *Exclusion:* FRE424Y.

FRE424H Contemporary Novel (Offered in Alternate Years) 1L, 1T
Prose fiction since 1950 with special reference to the *nouveau roman*. Innovative approaches to the problems of narration and to concepts of time, space and character. *Exclusion:* FRE424Y.

FRE475Y Practical Translation 1L, 1T
English to French and French to English. Texts are drawn from literature, business, economics, politics, science, art and advertising. *Prerequisite:* FRE375Y.

FRE490Y Senior Essay
A senior essay is an independent research project on either a literary or linguistic topic chosen by the student and supervised by an instructor. *Prerequisite:* Permission of Department.

FRE491H Independent Study
Individual study with a member of staff on a topic of common interest including readings, discussions and papers. *Prerequisite:* Permission of Department.

GERMAN

Faculty Advisor: Professor C. Saas

For more than the past two hundred years Germany, Austria, and German-speaking Switzerland have played increasingly important roles in European life, both as leaders in commerce and industry and as the homelands of outstanding musicians, philosophers, scientists, psychologists, and religious and political thinkers. Their scholars have excelled in such fields as Religious Studies, Mediaeval Studies, Philosophy, Literary Studies, Classics, Archaeology, History of Art and Music, Physics, Chemistry and Mathematics.

German writers are equally distinguished. Beginning with a vigorous medieval literature and continuing through Lessing, Goethe, and Heine to Kafka, Thomas Mann, and Brecht, German literature has treated the widest possible range of human problems: philosophical and psychological, moral and religious, social and economic. University courses in German offer a thorough study of the more important authors from the Middle Ages to modern times.

The Department also offers a variety of language practice courses on the intermediate and advanced levels, including grammar, translation, conversation, essay-writing, stylistics, and laboratory work. Two courses deal with the history and structure of the language. To consolidate language learning and improve oral fluency the Department co-operates with the German Government whenever possible in sponsoring flights to Germany and summer work for a limited number of undergraduates.

As one of the major languages in a shrinking world, German is valuable in itself as a means of communication. It is particularly useful in careers such as the foreign service, customs and immigration, business and commerce, civil service, interpretation and translation, librarianship, radio and television, music, tourism, and of course teaching. A knowledge of German is a virtual necessity for specialists in certain disciplines, such as Music, Fine Arts, Classics, Theology, and Philosophy. As a literature, German may be studied alone or in combination with other languages and literatures, with Linguistics, Philosophy, or History. The successful completion of a four-year programme, including seven approved courses in German, may entitle a student to do work in the Graduate Division of the Department.

The Department prefers that students come to the university with Grade 13 German: however, since not all high schools offer this programme, an Introductory Course in German is available for students with little or no previous knowledge of the language. Upon completion of this course GER(100 or 101H) students enter the regular stream of study. In addition, courses are available at the beginning and intermediate level in Reading German (GER105Y or 205Y) for students in the departments or faculties requiring a knowledge of scholarly German. Students who desire information regarding German studies are advised to confer with Professor Saas.

It is recommended that students who wish to specialize or co-specialize in German also take GLL190Y in First or Second year.

Specialist programme:

9 courses are required in a programme of at least 20 courses:

First year: Two of GER110Y, 120Y, 130Y, or one of GER120Y, 130Y, 200Y.

Second year: Two of GER210Y, 220Y, 230Y.

Third and fourth years: GER326H; two full courses from GER321H, 322H, 323Y, 324Y, 325Y, 327H, 350Y, 420Y, 422Y, 425Y, 428H, 435Y, 490H. Two full courses from GER310Y/311Y, 410Y, 411Y, 415H, 416H; at least one additional German half-course.

NOTE: Students must pass a test in oral fluency in German; this will normally be taken in the Third year. A student must obtain an overall average of at least 70% in any nine courses counting toward specialization, and not less than 60% in any one of these nine courses.

Minor programme

7 courses are required in a programme of at least 15 courses:

First year: Two of GER110Y, 120Y, 130Y, or one of GER120Y, 130Y, 200Y.

Second year: Two of GER210Y, 220Y, 230Y.

Third and Fourth years: GER326H, and 1½ courses or equivalent from GER310Y/311Y, 327H, 410Y, 411Y, 415H, 416H; and two courses from GER310Y/311Y, 327H, 410Y, 411Y, 415H, 416H; and two courses or equivalent from GER321H, 322H, 323Y, 324Y, 325Y, 327H, 350Y, 420Y, 421Y, 422Y, 425Y, 428H, 435Y, 490H.

NOTE: Students must pass a test in oral fluency in German; this will normally be taken in the Third year. A student must obtain an overall average of at least 70% in the seven courses, and not less than 60% in any of these courses.

GER100Y Introductory German

3L, 2P

An intensive language course for students with no previous knowledge of German. Practice in comprehension, speaking, reading, and writing. *Exclusion:* Grade 13 German, GER101H/105Y

GER101H Introductory German: Continuation

3L, 2P

An intensive language course for students who have studied some German, but who have not yet attained Grade 13 level. Practice in comprehension, speaking, reading, and writing. This course is the spring term of GER100Y. *Exclusion:* Grade 13 German, GER100Y, GER105Y.

- GER105Y Reading German I** 3P
Training in reading scholarly German for students who have little or no previous knowledge of German. The first course in the sequence GER105Y-205Y. The Department reserves the right to place students in the appropriate course in this series. *Exclusion:* Grade 13 German, GER100Y, 101H.
- GER110Y Language Practice I** 4P
The introductory course in the series GER110Y, 210Y, 310Y/311Y, 410Y. Review of basic grammar, acquisition of basic vocabulary, practice in translation, composition, conversation. The Department reserves the right to place students in the appropriate course in Language Practice I-IV. *Exclusion:* GER200Y. *Prerequisite:* Grade 13 German/GER100Y/101H. *Corequisite:* Students intending to specialize in German must take a first-year literature course as well.
- GER120Y Modern German Literature** 3L
An introduction to the study of German literature through works by such writers as Hofmannsthal, Mann, Kafka, Rilke, Brecht and Dürrenmatt. *Prerequisite:* Grade 13 German/GER100Y/101H.
- GER130Y German Literature of the 20th Century: Language Practice** 2L, 2P
This course is intended for students who, in addition to an introduction to German literature, want to have further language training. Works by such writers as Kafka, Hesse, Mann and Brecht. A review of basic grammar, expansion of vocabulary, practice in translation and composition. *Exclusion:* GER200Y. *Prerequisite:* Grade 13 German/GER100Y/101H.
- GER200Y Intensive Intermediate German** 2L, 3P
A combination language and literature course continuing the intensive pace of GER100Y/101H; practice in comprehension, speaking, reading and writing, plus the study of selected literary texts.
This course counts for specialization or co-specialization in German. *Exclusion:* GER110Y/130Y/203Y. *Prerequisites:* GER100Y/101H.
- GER203Y Intermediate German** 3P
A language course for students from GER100Y/101H, who do not plan to specialize in German. Language training with the study of some literary and cultural texts. This course does not count for specialization or co-specialization in German. *Exclusion:* GER110Y/130Y/200Y. *Prerequisite:* GER100Y/101H.
- GER210Y Language Practice II** 3P
Written and spoken German at the intermediate level. Students taking this course and intending to specialize in German must take a Second Year Literature course as well. *Prerequisite:* GER120Y/130Y/200Y.
- GER220Y Nineteenth Century Literature from Romanticism to Realism** 3L
This course continues the work of first year literature and provides a link with those third and fourth-year courses that deal with earlier German literature. The literature of the latter half of the nineteenth century is given particular attention. *Prerequisite:* GER120Y/130Y/200Y.
- GER230Y Nineteenth Century Prose and Poetry, Language Practice** 2L, 2P
Study of works selected from Biedermeier, Young Germany, and Realism. Language work of the First Year is continued. Two hours per week are devoted to literature, two hours to language practice. *Prerequisite:* GER120Y/130Y/200Y.
- GER271Y German Civilization (Offered in alternate years)** 3L
(I) A comprehensive study of German culture through the ages. Special consideration will be given to art history, music, and philosophy within their historical context. A description and analysis of present-day Germany will be included.
No knowledge of German is required. This course does not count toward specialization or co-specialization in German. Available to First-Year students by permission of the instructor.

- GER272Y **Film and Literature of the Weimar Republic** 3L
A study of the "golden age" of German cinema, and parallel developments in the literature of the period, including the work of Fritz Lang, Karl Mayer, and Franz Kafka. No knowledge of German is required. This course does not count toward specialization or co-specialization in German.
- GER310Y **Language Practice III** 3S
A course in written and spoken German at the advanced level: study of idioms, translation, essay writing, problems of grammar. The Department reserves the right to place students in the appropriate course in the series GER110Y, 210Y, 310Y/311Y, 410Y. *Exclusion:* GER311Y. *Prerequisite:* GER210Y/230Y.
- GER321H **Literature of the Enlightenment** (Offered in alternate years) 3L
A study of selected works of the *Aufklärung* with emphasis on Lessing as its foremost representative. *Prerequisite:* GER220Y/230Y.
- GER322H **Literature of the Storm and Stress** (Offered in alternate years) 3L
A study of some of the early works of Goethe and Schiller and their contemporaries. *Prerequisite:* GER220Y/230Y.
- GER324Y **Prose Fiction from Goethe to Thomas Mann** (Offered in alternate years) 3L
The development of the German novel and novella during their most important phase. The relation of each work to its social and cultural context; questions of form and technique. *Prerequisite:* GER220Y/230Y.
- GER325Y **Romanticism** (Offered in alternate years) 3L
A study of German Romantic literature, including works by Novalis, Brentano, Kleist, Eichendorff, and Hölderlin, as well as basic theoretical texts. *Prerequisite:* GER220Y/230Y.
- GER326H **Introduction to Middle High German** (Offered in alternate years) 3L
An introduction to the Middle High German language, literature and civilization through the study of such representative authors as Hartmann von Aue and Walther von der Vogelweide.
- GER327H **Mediaeval German Literature** (Offered in alternate years) 3L
Reading and literary analysis of works such as Gottfried's *Tristan*, the *Nibelungenlied*, and Middle High German poetry. *Prerequisite:* GER326H.
- GER341Y **Post World-War II German Literature: Fascism, Communism, Capitalism** 3L
(Offered in alternate years)
A study in English translation of East and West German novels and plays, dealing with the fascist past; reconstruction in West Germany, and a new communist society in East Germany.
No knowledge of German is required. This course does not count toward specialization or co-specialization.
First and second year students may enrol by permission of the instructor.
- GER350Y **The Theatre of Bertolt Brecht** (Offered in alternate years) 3L
(I) This course will offer - in *English translation* - a close reading of selected plays by Brecht, and an investigation of his dramatic theories and stage techniques. Credit for specialization or co-specialization in German may be given upon consultation with the instructor, and upon reading the works in German. Available to first and second year students by permission of the instructor.
- GER410Y **Language Practice IV** 3P
Language practice at the advanced level. Selected problems in grammar, translation, and essay writing. The Department reserves the right to place students in the appropriate course in the series GER110Y, 210Y, 310Y/311Y, 410Y. *Prerequisite:* GER310Y/311Y.

- GER420Y **Modern German Literature: 1885-1945** (Offered in alternate years) 3L
A study of modern German authors including Nietzsche, Hauptmann, George, Hofmannsthal, Thomas Mann, Rilke, Hesse, Kafka, Heym, Trakl and Brecht. *Exclusion:* GER250Y. *Prerequisite:* GER220Y, 230Y.
- GER421Y **German Drama from Gryphius to Brecht: Theory and Practice** 3L
(Offered in alternate years)
The development of dramatic theory and practice from the Baroque to Brecht. Rather than attempting a comprehensive survey of the genre, the course will concentrate on the important stages of its development by means of the close study of individual plays and theoretical writings. *Prerequisite:* GER220Y, 230Y.
- GER422Y **Contemporary German Literature: 1945 to the Present** 3L
(Offered in alternate years)
A study of major authors since the Second World War, including Böll, Celan, Dürrenmatt, Frisch and Grass. *Prerequisite:* GER220Y, 230Y.
- GER425Y **Classicism** (Offered in alternate years) 3L
Works to be studied include *Faust* I and II, Schiller's later dramas and Hölderlin's poetry. *Prerequisite:* GER220Y, 230Y.
- GER435Y **Hesse, Mann, Kafka** 3L
Selected works of the three writers will be read in translation. Trends and experiments in modern narrative art will be analysed. The readings will include *Siddhartha*, *Steppenwolf*, *Death in Venice*, *The Metamorphosis*, and *The Trial*. Students desiring specialization for this course will read the material in the original. *Exclusion:* GER250Y.

GEOGRAPHY

Faculty Advisors: Professors R.R. White, T.F. McIlwraith, D.S. Munro

Geography describes how man organizes himself and his activities on the surface of the earth; it seeks to understand the processes which have brought about current patterns of land use and associated landscapes. Space and time are the basic geographical elements.

Geography is a broadly-based field of inquiry overlapping with the humanities, social sciences, life sciences and physical sciences. Students with interests ranging from geology to literature, from chemistry to history, from ecology to economic change may find in Geography new ways of combining and developing their interests. To allow for this rich opportunity to associate many fields with Geography, courses in the Erindale programme have few prerequisites. Students will find, for instance, that many 300-level courses only require one to have "third year" standing, without any previous courses in Geography. In this way, Geography courses may effectively be combined with a specialization or minor programme in some other field. Geography courses which may be of interest to students associated with other disciplines include the following:

For	ANT: GGR351Y	HIS: GGR253Y, 353H, 344Y
	BIO: GGR233Y, 304H, 330Y, 372Y	PHL: GGR381H
	CHM: GGR374H, 376H	PHY: GGR206H, 214H, 372Y
	CMM: GGR245Y, 346H	POL: GGR255H, 346H, 352H, 354H
	ECO: GGR233Y	PSY: GGR271Y
	ENG: GGR351Y, 361Y	SLA: GGR344Y
	EPS: GGR214H, 200H, 373H and 383H	SOC: GGR245Y, 255H
	FAH: GGR340Y	SUR: GGR100Y, 207H, 280H
		many fields: GGR300H, 381H

The minor programme in Geography consists of *any six* full course equivalents. Committed students may begin in their first year, but initial enrolment in the second or third years is possible. GGR100Y, 131Y, 233Y, 245Y and 253Y are basic courses one might expect to choose for the minor; GGR206H is also a possibility for science students.

The specialist programme in Geography consists of 8½ GGR courses. The following 4½ courses form the "core", and must be taken: GGR202H, 207H, 212H, 280H, 300H, 381H, 491Y, and CSC139H.

Intending specialists are encouraged to make their plans known by the beginning of their second year, and to seek the guidance of a Faculty Advisor in working out a sequence of courses. Several streams of courses are described below.

Students following the Urban Studies and Canadian Studies streams may qualify for double specialization.

Core courses, required for the specialist programme are open to non-specialists as well. All are concerned with techniques which are useful in many fields.

The following courses may be counted for B.Sc. credit:

GGR200H, 202H, 206H, 207H, 212H, 214H, 280H

GGR300H, 303H, 304H, 305H, 320Y, 372Y, 373H, 374H, 376H, 381H, 383H, 491Y.

Suggested Streams in Geography

Specialist programme (General Studies)

9 full GGR courses in a programme of at least 20 courses:

GGR202H, 212H, 207H, 280H.

CSC139H

GGR300H, 381H

GGR491Y

4½ or 5 additional GGR courses.

Students interested in a broadly based arts training with specialization in Geography should take the "core" courses, plus at least 4½ other GGR courses. Consider GGR200H, 214H, 233Y, 245Y, 253Y, 351Y, 361Y and GGR344Y as likely choices. The general studies stream is a useful preparation for teaching.

Minor programme

Any 6 full GGR courses in a programme of at least 15 courses.

Specialist programme (Physical Environment)

GGR100Y/101Y; three of BIO100Y; CHM118Y; MAT132Y;

PHY118Y; one option.

GGR214H and 200H, or GGR206H, 202H, 212H, GGR207H, 280H;

CSC139H; one of GGR233Y, 245Y, 255H; one-half or one option.

Three 300-level GGR courses, including GGR300H and 381H; two options.

GGR491Y; four options.

In Years 2, 3 and 4, the following should be seriously considered as possible options: BIO230H, 231H, 332Y, 430Y, 433Y, 435H;

CHM215H; ECO260H; GGR245Y, 303H, 304H, 305H, 320Y, 334H, 346H, 373H, 374H, 383H; PHY220Y, 254Y.

Note: Students are strongly advised to supplement the required core courses in geography with GGR373H, 383H and MAT132Y.

Courses dealing with the physical environment offer a background in physical geography with application to environmental problems. This is a science stream and climatology, geomorphology and hydrology courses relate to biology, geology and meteorology. These subjects are best appreciated with introductory training in mathematics and the pure sciences.

Specialist programme (Environmental Management)

One of: GGR100Y, 101Y, 131Y and a selection from BIO100Y, POL101Y, MAT132Y, SOC101Y, CHM118Y, ECO100Y.

GGR202H, 207H, 212H, 280H; CSC139H; one or more from: GGR214H, 200H, 206H; one or more from GGR233Y, 245Y, 250Y, 253Y, 255H; other courses: BIO230H, 231H; SOC205Y; ECO200Y, 260H.

GGR300H, 381H and GGR491Y; one or more from GGR303H, 304H, 305H, 320Y, 372Y, 373H, 374H, 376H, 383H; one or more from GGR315Y, 324H, 330Y, 332H, 334H; one or more from GGR340Y, 346H, 349Y, 352H, 354H; up to five courses from related disciplines.

Note: Students should consult the Faculty Advisors on the choice of courses that best complement their programmes.

This science stream considers man-environment relationships. The physical basis of environmental deterioration and policy matters to contend with it are central. The programme demonstrates the environment as a physical system and as a system subject to social, economic and political pressures.

Specialist programme (Canadian Studies and Geography)

11 courses are required for Canadian Studies, 9 for Geography (some courses may count for both) in a programme of at least 20 courses:

ENG252Y; FRE171Y; GGR245Y; HIS262Y; POL100Y (Canadian Studies requirements);

GGR131Y, 202H, 212H, 207H, 280H; CSC139H. (Geography requirements). The courses listed above are usually taken during the first and second years.

INE402Y (interdisciplinary seminar in Canadian Studies); INE401Y, which may be considered equivalent to GGR491Y (B.A.thesis), provided an appropriate topic related to Canadian Studies is chosen:

GGR300H, 381H (Geography requirements);

Four courses with a disciplinary, thematic or chronological coherence, chosen from an approved list of Erindale or St. George Campus courses. Geography courses include GGR346H, 351Y, 353H, 361Y. SOC220Y is also suggested;

Four and one half other courses.

Minor programme

7 courses are required for Canadian Studies, 6 for Geography (some courses may count for both) in a programme of at least 15 courses:

ENG252Y; FRE171Y; GGR245Y; HIS262Y; POL100Y, plus two courses of approved Canadian content at 300- or 400- level (Canadian Studies requirement); Geography courses which would be appropriate include GGR346H, 351Y, 353H, or 361Y

Eight other courses, to a total of at least six in Geography.

Many Geography courses contain considerable Canadian content and, although not on the list of courses recognized for Canadian Studies credit, would complement that programme.

Geography students interested in arranging a coherent programme emphasizing Canadian material will find suitable supporting courses in Anthropology, Commerce, Economics, English, Fine Art, French, History, Philosophy, Political Science and Sociology. Most Geography courses have some Canadian content. The Canadian Studies Programme may be combined with Geography to form a joint emphasis in the two fields.

Specialist Programme (Urban Studies and Geography) – see Thematic Programmes.

Full descriptions of courses and programmes summarized in this calendar may be found in the Geography Handbook, August 1979, available at Erindale.

GGR100Y Introduction to Physical Geography (Formerly GGR175Y) 2L, 2P

(I) Introduction to world climates, vegetation, hydrology, soils and the physical landscape. Interactions between different sectors of the physical environment are explored and the role of man in the physical geographic system is discussed. *Exclusion:* GGR175Y.

GGR101Y Man and Environment (Same as BIO130Y) (Formerly GGR173Y) 2L, 2T

(I) Past and present man-environment relationships are examined; principles of ecology, environmental ethics and aesthetics are outlined; crossroads alternatives for man are discussed. Solutions to problems of current environmental concern - water pollution, heavy metals, nuclear power and noise will be considered with special reference to North America. *Exclusion:* BIO130Y, 232H, GGR173Y.

GGR131Y Introduction to Human Geography 2L, 1T

(I) Considers variations in economic and social organization in pre-industrial and technologically-advanced societies; also, man's role in landscape change, as expressed through the location of agriculture, industry, and cities.

- GGR200H Pleistocene Geomorphology (Formerly GGR219H)** 2L, 1P
An introduction to theories of glaciation and the evolution of glacial landforms with special reference to Southern Ontario. Topics included are: climatic change during the Pleistocene, stratigraphy of glacial deposits including data methods, data collection and analysis, economic importance of sand and gravel. Field trips. *Exclusion:* GGR219H. 320Y (1976-77). *Prerequisite:* 4½ or more course credits, including one Geography.
- GGR202H Statistics (Same as STA202H and PSY200H)** 2L, 1T
(I) Acquaints beginning students in the biological, physical and social sciences with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples. *Exclusion:* Any concurrent or previous Statistics course.
- GGR206H Introduction to Hydrology** 2L, 3P
The objectives of this course are to provide the student with a basic grounding in the theoretical and practical aspects of surface and groundwater hydrology, together with the consideration of problems in water resource development. Topics discussed include: measurement of streamflow, hydrograph analysis, physics of groundwater flow, snowmelt-runoff relationships, erosion and sedimentation, urban hydrology and water law. *Exclusion:* GGR275Y. *Prerequisite:* BIO130Y/GGR101Y, or GGR100Y
- GGR207H Aerial Photo Interpretation (Formerly GGR271Y)** 2L, 1P
The aim of the course is to permit students to develop an aerial perspective. Considerable attention is given to presentation of aerial photographic information in mapped form. Students are reminded that GGR202H, GGR212H and GGR207H are a group of related courses and are required for the specialist degree in geography. *Exclusion:* GGR271Y. *Corequisite:* GGR202H.
- GGR212H Application of Statistics (Same as STA212H)** 2L, 1T
(I) A continuation of GGR202H including an introduction to non-parametric, analysis of variance and linear regression techniques. Students interested in taking this course should consider carefully the courses listed below as exclusions and choose the appropriate sequence after discussion with faculty members. *Exclusion:* STA212H, 222Y(G), 242Y, 252Y(G), PSY201H, ECO220Y, BIO361H. *Prerequisite:* GGR202H.
- GGR214H Climatology** 2L, 2P
Meteorological basis of climate; general circulation of the atmosphere and influence on climatic change; interaction between man and climate. *Prerequisite:* 4½ or more course credits. *Recommended preparation:* Grade 13 MAT, GGR100Y.
- GGR233Y Energy, Natural Resource and Environmental Management** 2L, 1T
(Offered in alternate years)
Review of concepts in the management and decision-making process which shape the environment. Topics include environmental quality, impact of technology on society and nature, and evaluation of alternatives. The course is future-oriented, concerned with public policy, and adopts a world-view from a Canadian standpoint. *Prerequisite:* Any 4½ or more course credits. *Recommended preparation:* GGR101Y.
- GGR245Y Urban Canada (Formerly GGR241Y)** 2L, 1T
(I) An introduction to urban studies through an examination of the development and character of the urban fabric and urban life in Canada.
- GGR250Y Geographical Models of Man** 2L, 1T
Man's behaviour and location in space have been modelled in a variety of different ways. This course examines these various models of the man-environment interface, largely within a theoretical context. Derivative concepts from economic, sociological and psychological theory are the main sources for such models. *Prerequisite:* Any five full-course credits.

- GGR253Y Cultural Geography** 2L, 1T
A study of social change and the resultant imprint on both urban and rural landscapes in pre-industrial and modern societies. *Prerequisite:* Any five full course credits.
- GGR255H Perspectives On Current Population Issues** 2L, 1T
Issues in current discussions on the "population problem" are examined in light of historical writings. Optimum population size and political strength and the tradition of pessimism in population theory. *Prerequisite:* Any five full course credits.
- GGR280H Cartography** 2L, 2P
The use of maps and techniques of map making: topics include map interpretation, elements of cartographic design and mapping statistics. The aim of the course is to permit students to develop an areal or spatial perspective which they may bring to their studies in geography. *Exclusion:* GGR271Y. *Recommended preparation:* GGR202H.
- GGR300H Field Studies (Formerly GGR301H)** 3P
Investigation of physical and socio-economic phenomena out-of-doors. Field observations and samples collected during a week-long field camp, September 2-8, are analysed and the findings are submitted in a report. Each student must pay the cost of transportation and accommodation. *Exclusion:* GGR301H. *Prerequisite:* Any 9 or more course credits, or P.I.
- GGR303H Hydroclimatology** 2L, 1/2T
The earth's water balance analysed from the point of view of the fundamental physical, climatological and environmental factors; atmospheric turbulence and vapour transport; soil water relationships and snowmelt; evaporation and transpiration; water budgeting procedures; relations with general and agricultural hydrology. *Prerequisite:* A climatology course (GGR214H) or P.I.
- GGR304H Bioclimatology** 2L, 1/2T
Influence of climate on plants, animals and man, studied quantitatively. The energy, moisture and carbon balance over various surfaces will be related to the biotic part of natural and cultivated ecosystems. Principles of physiological climatology; wind-chill and comfort indices. Heat and moisture transfer from plants and animals; insulation of animals and clothing requirements of man. *Prerequisite:* A climatology course (GGR214H) or P.I. *Recommended preparation:* GGR303H.
- GGR305H Biogeography (Formerly GGR319H) (Offered in alternate years)** 2L, 1T
This course will review the relationship between plants, animals and their changing environments, and the role taken by man as an agent of vegetation change. *Exclusion:* GGR319H. *Prerequisite:* Any two GGR courses and one BIO course/P.I.
- GGR315H Resource Development Problems** 2L, 2P
A series of specific studies in the problem of resource utilization under various environmental conditions, with emphasis upon Canadian problems. *Prerequisite:* Any two GGR courses/P.I.
- GGR320Y Advanced Geomorphology** 2L, 2P
This course will stress both descriptive and process geomorphology and the relation of geology to landform development. Topics will include weathering, fluvial, glacial, and mass wasting processes; relationship of landform development and climate; and the physiography of Canada. *Prerequisite:* GGR219H/P.I.
- GGR324H Geography of Urban and Regional Transportation (Formerly GGR333H)** 2L, 1T
Principles of transport and land use; characteristics of transportation networks and movements; transportation and economic development, past and present; geographical aspects of contemporary transportation problems. *Prerequisite:* GGR202H/P.I.

- GGR330Y Rural Land Use (Formerly GGR331Y)** 2L, 1P
Discussions of agricultural origins, agricultural ecology and the economic development of agricultural patterns; the concept of agricultural region and distribution of agricultural types. *Prerequisite:* One GGR course/P.I. *Exclusion:* GGR331Y.
- GGR332H Development and Environment** 2L, 1/2T
The problems of poverty and hunger in low income countries have become even more complex with the emergent concerns about resource "scarcities" and ecological damage. The aim of the course is to bring together topics in these three interacting concerns. *Recommended preparation:* GGR233Y.
- GGR334H Water Resources Management** 2L, 1/2T
In this course particular emphasis is put on Canadian problems in water resource management; a selection of topics related to policy will be covered e.g. forecasting the demand for water, inter-basin and inter-national water transfers, industrial and urban water supply and wastewater management, flood/drought as natural hazards, the Great Lakes, water supply in developing countries. *Recommended preparation:* GGR233Y.
- GGR340Y Concepts, Methods and Values in Urban Studies (Same as SOC340Y)** 1L, 3P
Designed for students concentrating in urban studies irrespective of major disciplinary area. It provides a survey of a variety of types of urban study from the social science perspective. The major emphasis is on linkages between the ways in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues. *Prerequisite:* SOC205Y/ GGR245Y/ P.I. and SOC201Y/(GGR202H, 207H, 280H)/P.I.
- GGR344Y Geography of the Soviet Union (Formerly GGR363Y)** 2L, 1T
A survey of the geography of the Soviet Union, through an examination of topics ranging from the territorial expansion of the Russian state to contemporary issues in planning and development. Comparison of Soviet conditions with more familiar North American situations. *Prerequisite:* Two GGR courses/P.I. *Exclusion:* GGR363Y.
- GGR346H The Urban Planning Process in Canada** 2L, 2P
The course is designed to lead to an understanding of the planning process and to an examination of the possible and actual impact of urban planning. Major topics will include the premises of planning and the history of urban planning; legislation providing for controls and the actual use of those controls; methods and techniques of urban planning and a review of achievements. *Prerequisite:* GGR245Y/SOC205Y/P.I.
- GGR349Y Workshop in Advanced Urban Geography** 3P
A survey of alternative methods of data collection and analysis in urban studies. Application of methods to a limited range of different topics which are to be selected according to current interests of students and staff. Apart from lectures, discussion groups and simulation games the course involves a field trip to another large city. *Prerequisite:* GGR207H, 280H, 245Y.
- GGR351Y Historical Geography of Northeastern North America** 2L, 2T
Social and economic development and landscape change north of Chesapeake Bay and west through the Great Lakes area to the edge of the grasslands, from the time of first European contact. Evaluation of the land by successive generations of observers and users is of central interest in this course. *Prerequisite:* Any two full GGR courses. *Recommended preparation:* A Canadian or American history course.
- GGR352H A Theory of Regional Design** 2L, 1T
An introduction to the principles of regional design, with an emphasis on the decision-making processes at different levels and in different sectors of government. Use will be made of an interactive simulation model for project appraisal and budget formulation.
A general background in problems of urban and regional systems, economic development and data processing is recommended. *Exclusion:* GGR365Y.

- GGR353H Current Canadian Problems in Their Historical Setting** 2L, 1T
The historical roots of topical Canadian questions will be examined in this course. Students will investigate the geographical elements of such subjects as resource exploitation, farm consolidation, regional disparity, ethnicity, rural-urban inter-relations, international commerce. *Prerequisite:* Two GGR courses including GGR245Y/351Y/361Y.
- GGR354H Applications of Regional Design** 2L, 1T
An examination of empirical problems of regional design. The course will include use of an interactive simulation model for regional design and will compare the output of this model with case studies from Canada and from a selection of Third World Countries. A general background in problems of urban and regional systems, economic development and data processing is recommended. *Recommended preparation:* GGR352H. *Exclusion:* GGR365Y.
- GGR361Y Canadian Contemporary Regional Studies** 2L, 1T
A study of the spatial relations and distribution patterns of the physical phenomena, present and potential resources, population, and regional economic development. *Prerequisite:* Any two GGR courses.
- GGR372Y Applied Climatology** 2L, 1T
Fundamentals of energy balance climatology including principles of radiative and atmospheric energy transfer on the small and large scale. Elements of surface climate modelling and its application to solar heating, water loss, urban planning and air quality. *Prerequisite:* GGR214H. *Recommended preparation:* MAT130Y/135Y, PHY110Y.
- GGR373H Theory of Remote Sensing** 2L
Principles, instruments, and methods of remote data collection and analysis. Treatment of fundamentals of electromagnetic theory. Discussion of lenses, (materials, manufacture and limitations). Discussion of film including physical and chemical properties. Coverage of remote sensing equipment, including cameras (visible and near IR radiation), radiometers (IR and microwave) scanners (Multispectral), and active microwave (RADAR system). *Prerequisite:* GGR207H, 280H, (Geography students only), PHY135Y/140Y and MAT135Y recommended. *Exclusion:* GGR373Y.
- GGR374H Water Quality** 2L, 1P
An introduction to the physical and chemical characteristics of natural water with emphasis on their importance to industrial and domestic supplies. Topics included are: measurement and analysis of dissolved and suspended constituents, chemical equilibrium in dilute aqueous solutions, and spatial variability of water quality with emphasis on Southern Ontario. *Prerequisite:* Grade 13 Chemistry or CHM150Y, GGR206H.
- GGR376H Groundwater Hydrology** 2L, 2P
Groundwater movement; groundwater prospecting; well hydraulics; groundwater management; artificial recharge of aquifers. *Prerequisite:* GGR202H, 206H, 212H. *Recommended preparation:* MAT132Y or equivalent.
- GGR379H Advanced Field Methods in Physical Geography**
Structured around field work, the course will include at least one major field trip. Students will be responsible for reading selected articles relating to the study areas prior to visiting the field. Projects will involve mapping of physical features (i.e., geologic structures, vegetation, soil, water) on a preliminary basis from aerial photographs in the laboratory and subsequently in the field. The intention is to conduct the major field trip outside Southern Ontario to provide a contrasting environment for the students (who, it is assumed already have some familiarity with the local area). *Exclusion:* GGR390H. *Prerequisite:* At least three courses in any of the following, including at least one at the 300 level: Physical Geography, Geology, Biology.

- GGR381H Research Design** 2P
Designed to give students experience in the definition of and proper approach to a research study. Sampling schemes, analytical procedures, and thesis or report formats are also covered. Students prepare a paper on the research problem which they would intend to pursue in fourth year. In addition to the statement of purpose, the paper embodies a thorough review of pertinent literature and where appropriate, data from interviews with experts in the field, personal observations and/or preliminary sample analyses. *Prerequisite:* Any 10 or more course credits.
- GGR383H Applications of Remote Sensing** 2L
The purpose of this course is to apply remote sensing techniques to problems which students have already encountered at the 300-level in geography, biology, earth sciences and related fields.
In addition to readings in the textbook and in contemporary published articles, students will provide written précis and oral reports. Laboratory exercises will emphasize basic techniques, and applications of each of the sensors. *Exclusion:* GGR373Y. *Prerequisite:* GGR207H, 280H, (Geography students only) PHY135Y/140Y and MAT135Y recommended.
- GGR441H Advanced Topics in Urban Studies** (Offered in alternate years) 2P
An advanced seminar dealing with selected topics in urban studies, to be selected according to staff and student interests. Possible topics include images of cities and the spirit of place, the city in history, social theory and the city, and similar topics. *Prerequisite:* Fifteen or more full course credits, P.I.
- GGR491Y B.A./B.Sc. Thesis**
A research project, each student working on a topic of his choice under the individual guidance of a member of the staff. Copies of the thesis are to be submitted by March 1, and the student will present it before an examining committee. *Prerequisite:* GGR381H (grade of 75% required); six GGR courses; fifteen or more full course credits.

GREEK AND LATIN LITERATURE IN TRANSLATION

(See Classics)

- GLL190Y Greek and Roman Religion and Mythology** 2L, 1T
The Myths of Greece and Rome will be studied in connection with the religion of the ancient world. Attention will be focussed on the origin and development of the most important myths and their significance as inspiration for art and literature. In addition, the course will include discussion of different schools of interpretation of myth, and comparison of Greek and Roman myths to those of other cultures, particular of the Near East and Northern Europe. *Exclusion:* GLL191H(G), 205(G).
- GLL200Y Greek Drama in Translation** 2S
(I) A study of Tragedy and Comedy in ancient Greece. Reading and discussion of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes. *Exclusion:* GLL300Y(G).
- GLL202H The Ancient Novel** (Offered in alternate years) 2S
(I) The development in Greece and Rome of an imaginative prose literature, which anticipates the modern European novel. Greek romances present young love and sensational adventures in an idealized setting. Petronius' *Satyricon* shows the culture of Nero's Italy through the eyes of a homosexual trio, and Apuleius' *Golden Ass* recounts the experiences of a young man in Greece transformed into an ass. The *True History of Lucian*, a parody of travellers' tales, is an amusing forerunner of science fiction.
- GLL204H Roman Satire** (Offered in alternate years) 2S
(I) A reading of selected Roman satires, with emphasis on Horace and Juvenal. Verse satire is the most personal form of Roman Literature and offers the modern reader a vivid and witty picture of people and society of the times. Of further interest is the influence of Horace and Juvenal on the formation of modern English and European satire.

GREEK AND ROMAN HISTORY

(See Classics)

- GRH100Y Greek and Roman Civilization** 2L, 1T
Its political, economic and cultural evolution, beginning in an age of independent city-states, reaching rich maturity in the Hellenistic age of Great Powers, and culminating in the multiracial and multicultural Roman Empire. Its place in world history. *Exclusion:* GRH200Y/300Y if taken in the same year of study.
- GRH200Y Greek History to the Death of Alexander** (Offered in alternate years) 2L, 1T
(I) Political, economic and intellectual progress and achievement in the Greek classical age. *Exclusion:* GRH100Y if taken in the same year of study.
- GRH202Y The Roman Empire** (Formerly GRH300Y)(Offered in alternate years) 2L, 1T
(I) Constitutional, economic, social, military and religious developments in the empire, from Augustus to St. Augustine. *Exclusion:* GRH100Y if taken in the same year.
- GRH216Y Alexander the Great and the Hellenistic Age** (Offered in alternate years) 2S
(I) The course will examine the career and achievements of Alexander, and the shape of the world that resulted from his conquests.
- GRH218Y Religion in the Roman Empire** (Offered in alternate years) 2S
(I) A study of the different religious systems and beliefs competing for men's allegiance in the Roman world of the first four centuries A.D. Classical paganism and its cults; emperor worship; the philosophical alternatives to religion; astrology; the mystery religions and Mithraism; the rise of Christianity and the development of its teachings and institutions within the social context of their times; official and popular reactions to Christianity - conversion, opposition, persecution, and the eventual establishment of Christianity as the Empire's sole religion.
- GRH232H Ancient Astrology and Astronomy** (Offered in alternate years) 2S
(I) Greek and Roman views of the universe; the origin and development of scientific astronomy, astrology, and star worship.
- GRH311Y Caesar and Augustus** (Formerly GRH212Y)(Same as HIS486Y) 2S
(Offered in alternate years)
A study of politics and society in ancient Rome during the period of the breakdown of republican government and the transition to the autocratic system of the Principate.

GREEK

(See Classics)

- GRK100Y Introductory Greek with Selected Readings** (Offered in alternate years) 4S
Introduces beginners to the ancient Greek language and prepares them for the reading of Greek literature.
- GRK210H Socrates On Trial** (Offered in alternate years) 3S
Plato, *Apology of Socrates*. Further study of the language. *Prerequisite:* Grade 13 Greek/GRK100Y.
- GRK213H The Wanderings of Odysseus** (Offered in alternate years) 3S
Homer, *Odyssey*, 6, 9, 11. Further study of the language. *Prerequisite:* Grade 13 Greek/GRK100Y.

HISTORY

Faculty Advisor: Professor C. La Vigna

History is exclusively neither an art nor a science, but a subtle blend of the two. The historical imagination reaches beyond the limits imposed by scientific method, but it does not enjoy unfettered poetic license. What is not required of art is required of history - to discover what the old universe was like rather than to invent a new one.

We study the past in order to influence, no matter how modestly, the world around us and the world within us. Historical inquiry is always a response to the human need for information, an understanding of the broad patterns of social development. Concentration in history can provide students with the analytical skills and intellectual judgement required in a number of fields. From academic research and teaching to a career in publishing, journalism or the media, the historian's contribution is substantial. Training in history is appropriate preparation for a career in law or in government service as a researcher, archivist or policy analyst.

The history programme at Erindale is designed to give students a comprehensive view of the modern world. Strong core areas in European, Canadian and American History are supplemented by courses in British, Russian, Latin American and Third World History. Introductory 100 and 200 level courses are normally conducted as a combination of lecture and tutorial; more advanced courses are often offered as seminars, allowing students experience in independent research and in presenting their findings. History seminars (designated 2S) are limited enrolment courses, for which students must ballot.

Students who wish to specialize in History are required to enrol in the History Office (Room 236, North Building).

Specialist programme

9 courses are required in a programme of at least 20 courses:

Courses from other disciplines (normally not more than three) may be substituted for History courses if approved by the Department. Within this general prescription:

- a) nine courses must be chosen from a minimum of three areas
- b) in each of two areas a minimum of two 300- or 400- series courses must be chosen
- c) of the nine courses, at least two must deal exclusively with periods preceding the year 1815.

Joint Specialist programmes

Programmes have been worked out between History, Economics, English, Geography and Philosophy. For details consult the Faculty Advisor.

Minor programme

7 courses are required from a minimum of two areas, in a programme of at least 15 courses:

Courses from other disciplines (normally not more than two) may be substituted for History courses if approved by the Department. In one area, a minimum of two 300- or 400- series courses must be chosen. At least one course must deal exclusively with a period preceding 1815.

HIS100Y	Modern Europe, 1789-1970 Europe from the French Revolution to the 1960's. Political, economic, social and cultural aspects will be covered.	2L, 1T
HIS107Y	The Emergence of the Modern World An introduction to the problems and methods of social and political history through comparative study of modern Western and "Third World" societies. Major themes will include the commercial and industrial revolutions, peasant societies and agrarian change, the rise of the nation-state, popular and revolutionary movements, and colonialism and resistance to it. <i>Exclusion:</i> HIS101Y.	2L, 1T
HIS204Y (I)	History of Italy (Offered in alternate years) A general survey of the history of Italy: political, social, economic and cultural.	2L, 1T

- HIS210H Sexual Revolution in the Modern World** 2L, 1T
An examination of changing trends in marriage, family composition, and sexual expression from the 18th century to the present. These will be studied in relation to industrialization, the emergence of centralized nation-states, and other principal economic, political, and cultural developments of the modern era, focusing mainly on Europe.
- HIS220Y The Shape of Medieval Society** 2L, 1T
(I) Europe from the late Roman period to the fifteenth century. A chronological survey of the various cultures that constituted medieval society and the actions and institutions that determined its particular shape.
- HIS230Y Politics and Social Change in England, 1530-1800** 2L, 1T
(I) An introduction to the development of government and society in England from the sixteenth to the eighteenth century. Attention will be given to such events as the English Reformation, the Civil War, the Glorious Revolution, the beginnings of industrialization, and the challenge of the American and French Revolutions. *Exclusion:* HIS234Y.
- HIS234Y History of Great Britain, 1603-Present** (Offered in alternate years) 2L, 1T
(I) An introduction to British History from the accession of James I (1603) to the present. Among the topics and themes examined are the Civil War, the Glorious Revolution, the challenge of the American and French Revolutions, the development of industrial society and parliamentary democracy, foreign and Empire relations, and the emergence of the welfare state. *Exclusion:* HIS230Y, 231Y.
- HIS240Y Early Modern Europe, 1450-1815** 2L, 1T
(I) The political, socio-economic and intellectual history of Europe from the Renaissance to the French Revolution and Napoleon, with emphasis on the factors that led to the emergence of modern Western Civilization.
- HIS248Y The Industrial Revolution** (Offered in alternate years) 2L, 1T
(I) The economic, technological and social transformation of European society in the eighteenth and nineteenth centuries. Why did these transformations occur when they did, and why did certain nations become industrial more rapidly and completely than others? The effects of industrial change on social structures and political organization, as well as the rise of new social classes and the interaction among them.
- HIS250Y Russia Since the 9th Century** 2L, 1T
(I) A thematic approach concentrating on the modern period (post-1700). Students are encouraged to follow their own interests through independent reading and special projects.
- HIS262Y History of Canada** 2L, 1T
(I) An introduction to the social, political and economic history of Canada. Particular attention to regional diversity, the development of political movements, and the implications of economic development based on staples.
- HIS271Y American History Since 1763** 2L, 1T
(I) A survey of significant developments in American history (e.g., the Revolution, the Civil War, industrialization, the effects of the Cold War) and important characteristics of American society (e.g., social mobility, racism, imperialism). Lectures and readings will combine the perspectives of political, social, economic and diplomatic history.
- HIS290Y Introduction to Latin American History** 2L, 1T
(I) Presentation of the past of Latin America in relation to its present, through investigation of selected themes: colonialism, imperialism and dependence; the succession and interaction of tribal, feudal and capitalist forms of society; racial and cultural mixture; democracy and dictatorship; nationalism, etc.
- HIS309Y The Atlantic Provinces, 1500-Present** 1L, 1T
An historical introduction to an often neglected region of Canada. Emphasis on the chronic economic underdevelopment of this region, the causes of dissatisfaction in the hinterland, and the development of a regional identity. *Prerequisite:* HIS262Y OR P.I.

- HIS313Y Canadian Labour and the Left** (Offered in alternate years) 2S
A study of the growth of the Canadian labour movement since Confederation and of the related development of Canadian radicalism. Social, economic and regional themes will be incorporated. *Prerequisite:* HIS262Y/POL100Y.
- HIS314Y French Canada Since the Conquest** 2S
The development of the French-Canadian community in Canada, French-Canadian nationalism, the political and economic development of Quebec, and the cultural evolution of French-Canadian society both within and outside of Quebec. *Prerequisite:* HIS262Y or P.I.
- HIS319Y Social Movements in 20th Century Canada** 1L, 1T
An examination of major social movements in Canada from the social gospel to French Canadian nationalism in the 1970's. Some emphasis will be placed on the general and specific factors leading to the development, institutionalization and/or demise of the movements in question.
- HIS323Y Canadian Parties and Politics Since 1867** (Offered in alternate years) 2S
A study of the Canadian national and provincial party systems with an emphasis on techniques of political management in a federal system. *Prerequisite:* P.I.
- HIS327Y War and Revolution in 19th Century Europe** 2S
The impact of war and revolution on European history from Napoleon to the First World War. Major topics will include the Napoleonic Empire and the Vienna Settlement, the French Revolution of 1830, the European Revolutions of 1848, the Crimean War, the Russo-Turkish War, war and colonial expansion, the Russo-Japanese War and the Russian Revolution of 1905, the Balkan Wars, and the outbreak of war in 1914. *Prerequisite:* P.I.
- HIS329Y The Russian Revolutionary Movement** (Formerly HIS359Y) 2S
(Offered in alternate years)
The development of revolutionary ideologies, tactics, and organizations from the Decembrist movement (1825) to the consolidation of the Bolshevik Revolution. Concentrates on the writings of individual leaders (Herzen, Bakunin, Lenin) and their different strategies and goals in the struggle against tsarism. *Prerequisite:* P.I.
- HIS331H Augustine and The City of God** 2S
A study of this important figure who bridges the gap between the Roman Empire and the Middle Ages, and, in particular, of the intellectual, social and political implications of his work *The City of God*.
- HIS333H The Native Peoples of Canada** 1L, 1T
A topical examination of the historical experience of the native peoples of Canada from the contact period to Confederation.
- HIS337Y British History, 1815-1914** 2S
The major themes of British history from the late 18th Century: the emergence of industrial society, the fate of aristocracy and religion, cultural and intellectual change, foreign relations, constitutional development and political history. *Prerequisite:* P.I.
- HIS338Y From Empire to Welfare State, 1906-Present** 2S
A topical analysis of political, economic and social issues in Modern British History. Themes include the decline of the Liberal Party, the impact of two world wars, the making of the welfare state, Empire developments, post-war Conservative and Labour Britain. *Prerequisite:* P.I.
- HIS341Y Italy Since 1789** (Formerly HIS313E)(Offered in alternate years) 2S
A study of the problems surrounding the unification of Italy and the unified state with emphasis upon social questions. The period covered will be approximately 1800-1945. *Prerequisite:* P.I.

- HIS346Y French Society and Culture in the Eighteenth Century** 2S
The purpose of this course is to provide students with a better understanding of the Old Regime from the death of Louis XIV to the Revolution. Among themes to be considered are the Enlightenment and its non-elite impact, eighteenth century utopias, urban growth, manufacturing, forms of political opposition to the absolute monarchy, applied arts, popular culture, the nobility, dechristianization, the demographic surge and its consequences. *Prerequisite:* HIS240Y or P.I.
- HIS352H History of War to 1815** 1L, 1T
A survey of war as understood and practiced by ancient, medieval and early modern societies.
- HIS353Y International Relations, 1870-1945** (Offered in alternate years) 2S
The international relations of the European powers at their zenith and in decline. The interaction of the European powers is studied from the creation of the Second Reich to the origins of the First World War, the Versailles settlement, the inter-war "twenty year crisis" through the Second World War. The economic and social framework will be examined as well as political conflicts. *Prerequisite:* P.I.
- HIS355Y Totalitarianism** 2S
An examination of controversial interpretations of this period by some of Europe's leading authors with a view to understanding better what underlies the triumph of the 20th century totalitarian movements - Fascism, Nazism, and Stalinist Communism. *Prerequisite:* P.I.
- HIS356Y Social History of Russia from the Rise of Serfdom to the Present** 2S
Emphasizes the condition of the common man as affected by changing political and economic circumstances. Among the topics included are: the serf economy, the state as agent of social change, the causes and consequences of emancipation, industrial growth and modernization (before and after 1917), and the achievement and prospects of Soviet society. *Prerequisite:* P.I.
- HIS357Y The Renaissance** 2L, 1T
A cultural history of the 15th and 16th centuries set against the socio-economic background. The course will concentrate upon the development of the Renaissance in Italy and will deal with its manifestations in Northern Europe.
- HIS359Y The History of Women in Canada** 2S
The economic, political and social role of Canadian women, the beliefs underlying relations between the sexes and the changing views of women toward their situation. *Prerequisite:* P.I. *Exclusion:* HIS330S (1974-75).
- HIS364H The Church and Religious Thought in Canada** 1L, 1T
The historical evolution of religious thought in Canada and the impact of church movements on secular society. Emphasis will be placed on the twentieth century and on issues such as denominational education, church-state relations, religious ethnicism, the Social Gospel and religio-political movements.
- HIS372Y The United States in the Twentieth Century** (Offered in alternate years) 1L, 1T
A topical approach to the twentieth century designed to familiarize the student with important political, social and economic developments; for example, some topics considered will include the behaviour of the United States in the international arena, changing sexual roles and the dynamics of the family, the growth of economic and political corporatism, the ideology of American individualism, and militarism in postwar society.
- HIS374Y The Medieval Tradition** (Formerly HIS420Y) 1L, 1T
A cultural and intellectual history of the high Middle Ages. This course examines the classic expression of medieval culture from the literature of Dante and Chaucer to the theology of Abelard and Aquinas and the art of Giotto and the gothic cathedral. The purpose is to acquaint students with the modes of thought and feeling that characterized the medieval synthesis.

- HIS376Y The United States Between the Wars, 1918-1941** 1L, 1T
The study of economic, political, cultural and diplomatic developments associated with the emergence of "modern America." Major topics will include: the strengths and weaknesses of a consumer and corporate society; the transition from Republican to Democratic Party dominance; youth culture and protest culture; and the expansion of economic and political activity in the international arena. No prerequisites, but HIS271Y or 372Y are recommended preparation.
- HIS377Y Topics in Twentieth Century American Diplomacy** (Offered in alternate years) 1L, 1T
An examination of United States behaviour on the international scene since the 1890s. Economic, political and ideological factors involved in the growth of the American empire, World War I, World War II and the Cold War will be studied.
- HIS378Y Ethnicity in American History** 2S
The seminar will consider the extent to which the United States has been a "melting pot", including migrations to and settlement patterns in America, concepts of nationality and race, and problems of assimilation and acculturation. Black history and Indian-white relations will also be discussed, although the focus will be on non-Anglo-Saxon immigrants. *Prerequisite:* P.I.
- HIS383Y Society and Thought in Early America** 1L, 1T
A study of the social, cultural and intellectual life and development of the American colonies and the new nation, from the sixteenth century European background through the War of 1812. Major topics will include the nature of pre-industrial society, Puritanism, slavery and the Southern plantation system, the colonial family and the role of women, education, the Enlightenment, the Great Awakening, the American Revolution, and the growth of nationalism.
- HIS386Y American Society in the 19th Century** (Offered in alternate years) 1L, 1T
The development and interaction of institutional and population groups in the United States from the Jeffersonian era to the Spanish-American War. Major themes will include the changing functions and forms of religion, the family and education; reform movements and utopian communities; the "Old" and the "New" South; the frontier social order, ethnic and race relations; and the social consequences of urbanization and industrialization.
- HIS387Y The Ancien Regime, 1716-1790** (Offered in alternate years) 2S
A topical analysis of the political and social structure and intellectual and cultural currents of eighteenth century Europe, with particular emphasis on the factors that led to the revolutionary upheaval of 1789-1815. *Prerequisite:* HIS240Y or P.I.
- HIS389Y Social Revolutions in Latin America** 2S
A course focusing on politics and revolutionary movements in modern Latin America and related areas (e.g., southern Europe); emphasis will be placed on three or four particular countries, to be studied on a comparative basis. The course will also attempt to introduce possible approaches to history as a social science. *Prerequisite:* P.I.
- HIS391H Mexico: Independence to Revolution, 1810-1960** (Offered in alternate years) 2S
A seminar considering the growth of the Mexican nation from the struggle for independence to the "institutional revolution" of today. *Prerequisite:* P.I.
- HIS399Y The Era of the French Revolution and Napoleon, 1789-1815** 2S
The origins, course and effects of the French Revolution and the impact of Napoleon on France and Europe. The perspective will be continental, including the histories of the major European powers. *Prerequisite:* HIS240Y or P.I.
- HIS401Y Independent Reading**
An independent study of an area of particular interest to a student or group of students carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year. *Prerequisite:* P.I.

- HIS403Y Independent Reading**
An independent study of an area of particular interest to a student or group of students, carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year. *Prerequisite:* P.I.
- HIS404H Explorations in Oral History** 2T
A seminar on the collection and analysis of historical evidence. Oral history uses first-hand interviews to obtain information about historic events from eyewitnesses. With the aid of faculty members from several fields of history, students will define individual research projects, carry out interviews, and produce an essay and seminar report interpreting the results. *Prerequisite:* one second- or third-year course in modern history.
- HIS410Y Upper Canadian Society and Politics** (Offered in alternate years) 2S
The social and political development of Upper Canada from the foundation of the province to the Confederation era. *Prerequisite:* P.I.
- HIS429Y Civilization and Its Alternatives in the Early Middle Ages** 2S
(Offered in alternate years)
A study of the characteristic elements of "barbarian" and "civilized" cultures and their interactions in the early Middle Ages. Particular attention will be given to questions of religion, economics, and social organization. *Prerequisite:* P.I.
- HIS431Y Topics in Twentieth Century British Diplomacy** (Formerly HIS322Y) 2S
The exercise and decline of British power in foreign affairs, including war aims and the peace settlements of World War One, appeasement between the wars, World War Two, socialist alternatives in foreign affairs, the Suez crisis, Rhodesia, and entry into the European Common Market. *Prerequisite:* P.I.
- HIS479Y Cold War America** (Offered in alternate years) 2S
An examination of significant political, economic, social and intellectual developments, including Cold War foreign policies, economic and social reforms, McCarthyism, the Civil Rights movement, women's liberation, the "counter-culture," and the Indochina Wars. *Prerequisite:* P.I.
- HIS485Y The Problem of Government in Classical Greece** (Offered in alternate years) 2S
A study of forms and ideas of socio-political organization in ancient Greece, concentrating on Athens, from Solon, the founder of her democracy, to Pericles, its greatest exponent.
- HIS486Y The Roman Revolution** (Same as GRH212Y)(Offered in alternate years) 2S
A study of politics and society in ancient Rome during the period of the breakdown of republican government and the transition to the autocratic system of the Principate.

INTERDISCIPLINARY STUDIES

Faculty Advisor: Professor R.W. Van Fossen

"Interdisciplinary Studies" is the name given to a special program of courses which, because of their innovative character, might not readily be accommodated within the programs of the regular academic departments of the College. Subject areas are changeable from year to year and students are advised to consult the Associate Dean of Humanities for current details.

- INE203H Effective Writing** 2L, 1P
This half-credit course is for students who already write passable prose but who want to write better. The class will analyse the principles and practice of effective writing and explore various kinds of non-fictional prose, with special emphasis on the expository essay. There will be frequent writing exercises. A screening test will be given at the beginning of the course.

- INE205H Writing for Business** 2L, 1P
Aimed at students who will be entering the business world, and who already write passably, this half-course will explore the principles and practice of effective writing, with special emphasis on business correspondence and reports. There will be frequent writing exercises.
- INE303Y Writing and Teaching** 1L, 1P
Designed in cooperation with the Faculty of Education and local boards of education, this course is for teachers and prospective teachers who want to know more about the principles of effective writing and how to teach students to write better. In addition to exploring theories of rhetoric and composition, the course will examine the history and characteristics of the English language, and the stages of writing development from childish syntax to sophisticated prose. It will also provide a range of practical approaches to teaching writing, including teaching strategies, student assignments and methods of evaluation. Although the course will have relevance for teachers in a variety of disciplines, the Faculty of Education will recognize it as an English Credit towards a Specialist's Certificate.
- INE401Y Senior Essay** TBA
A major independent research project chosen by the student and supervised by a faculty member. All projects must be approved by the Committee on Canadian Studies by the end of classes in the previous year. Application forms are available from the Programme Co-ordinator. *Prerequisite:* Open only to students with at least fifteen full-course equivalents and the permission of the Programme Co-ordinator.
- INE402Y Selected Topics in Canadian Studies** TBA
A seminar course considering varied perspectives on Canadian themes or periods as presented by several disciplines. The topics to be studied will be decided in accordance with the special interests of the students involved. *Prerequisite:* Permission of the Programme Co-ordinator.

ITALIAN

Faculty Advisor: G. Pugliese

The Italian programme at Erindale is designed to provide a comprehensive study of the diversity which is Italy, a country whose culture continues to be a significant force in the shaping of Western civilization. The greatest attention is devoted to literature, as a principal manifestation of the national spirit, with courses organized around major figures, movements or genres, but other facets of Italian life and civilization are also examined. Language is studied scientifically from all points of view - practical, stylistic, philological and historical - at all levels of instruction.

Knowledge of another language and culture is regarded favourably by other disciplines and is frequently required for graduate-level studies. Graduates in Italian are in demand and will continue to be. There are career opportunities in teaching, foreign affairs, government, social services, trade and law. Furthermore, the presence of large Italian communities throughout Canada, provides a social, intellectual and practical incentive for the study of Italian.

Students are free to design for themselves the programme of study best suited to their interests and needs, and they can choose from available courses at Erindale and at St. George. There are conditions, however, which must be satisfied (a) for specialization (in Italian alone) and (b) for dual specialization (in Italian and another discipline).

In case of uncertainty with regard to the programme of study, course content, graduate studies requirements, or any related matter, students are strongly advised to consult the discipline representative for Italian at Erindale.

Specialist programme

9 courses are required in a programme of at least 20 courses:

One of ITA100Y, 115Y, 200Y, 210Y, 340Y

One language course, ITA230Y/220H and any other half course, ITA321Y, one course on the Renaissance (ITA420Y/ITA323H and 427H), 4 additional ITA courses.

Dual Specialization

7 ITA courses required in a programme of at least 20 courses:

One of ITA100Y, 115Y, 200Y, 210Y, 340Y

ITA230Y/220H and any half course, one language course, ITA321Y, 2 additional ITA courses, one course on the Renaissance (ITA420Y/323H and 427H)

Minor programme

5 ITA courses required in a programme of at least 15 courses.

- | | | |
|---------|---|--------|
| ITA100Y | Italian For Beginners
An introduction to the Italian language for students of non-Italian linguistic background. Essentials of grammar, oral practice, language laboratory, translation. <i>Exclusion:</i> Previous schooling in Italian. | 4L, 1P |
| ITA115Y | Beginning Italian For Dialect Speakers (Formerly ITA110Y)
An introduction to the main elements of Italian grammar for students who speak, understand or have studied some Italian but do not have Grade 12 or 13. Language laboratory, linguistic study of modern Italian prose, composition, conversation. <i>Exclusion:</i> Grade 12/13. | 4L, 1P |
| ITA200Y | Continuing Italian
This course consists of a thorough review of grammatical structures and is designed to improve the students' self-expressiveness in Italian. Selections from contemporary authors and passages dealing with present-day issues are used as a basis for discussion in Italian. For students whose background in Italian is solely academic. <i>Prerequisite:</i> ITA100Y. Grade 13 ITA/P.I. | 3L, 1P |
| ITA210Y | Continuing Italian For Dialect Or Native Speakers
A comprehensive review of Italian grammar with readings from a variety of texts. Composition and conversation are integral parts of this course. <i>Prerequisite:</i> ITA100Y/Grade 13 ITA. | 3L, 1P |
| ITA220H | Modern Critical Approaches to Italian Literature
An introduction to the art of interpreting works of the imagination through discussion and analysis of various critical methods and by means of the concrete evaluation of Italian poetry, drama and fiction. <i>Corequisite:</i> ITA200Y/ITA210Y. | 2L, 1T |
| ITA221H | Forms of Modern Italian Literature
An introduction to twentieth century Italian literature mainly through a study of representative "novelle" and plays. Selections will include short stories by Moravia, Bassani, Ginzburg and others and plays by Pirandello and others. <i>Prerequisite:</i> Grade 13 ITA. | 2L, 1T |
| ITA230Y | Italian Literature Through the Ages (Formerly ITA225Y)
A survey of the shorter forms of Italian literature from the Middle Ages to the beginning of the twentieth century. Emphasis will be given to poems and "novelle" but theoretical pieces and short plays of recognized literary significance will also be examined. <i>Prerequisite:</i> ITA100/Grade 13 ITA/P.I. | 2L, 1T |
| ITA240Y | Italian Cinema (In English)(Offered in alternate years)
A course designed to explore the characteristics of the modern Italian film. The stress will be on works by such established masters as Rossellini, Visconti, Fellini and Antonioni, but films by younger directors (e.g. Wertmuller, Bertolucci) will also be examined. All analysis and discussion to be entirely in English. | 2L |

- ITA270H **Reality, Myth, Death: The Modern Italian Novel** (In English) 2L
All classes will be conducted in English and all novels will be in English translation. Works to be read include: Moravia's *The Conformist*, Bassani's *Garden of the Finzi-Contini*, Silone's *Bread and Wine*. The n background will be approached in informal group discussions. *Exclusion:* ITA360Y.
- ITA272H **Pirandello and the Modern Italian Theatre** (In English) 2L, 1T
The problem of conflicting realities and of the definition of the personality in the plays of Pirandello. Works by Betti and De Filippo (including *Marriage Italian Style*) will also be read. All texts and discussions will be in English.
- ITA275Y **The Culture of the Italian Renaissance** (In English) 2, 1S
A survey of the art forms, social ideals and intellectual ideology of the Italian people in the fifteenth and sixteenth centuries, with some attention also given to the political and economic conditions of the period. Artists, writers and philosophers, whose major works will be considered, include: Michelangelo, Leonardo da Vinci, Castiglione, Machiavelli, Cellini, Pico della Mirandola. Slides, records and other illustrative materials will be used.
- ITA321Y **Dante's *Divina Commedia*** (Formerly ITA310Y) 2L, 1T
An introduction to the work and thought of Dante, with special emphasis on the *Inferno* and *Purgatorio*. *Prerequisite:* ITA200Y/210Y.
- ITA323H **Machiavelli, Castiglione and Guicciardini** (Offered in alternate years) 2L, 1T
A course on the social and political thought of the Italian Renaissance as reflected in Machiavelli's *Principe*, Castiglione's *Cortegiano* and Guicciardini's *Ricordi*. These works will also be considered from a literary point of view. *Prerequisite:* ITA200Y/210Y.
- ITA325H **Leopardi's *Canti*** (Formerly ITA324H) 2L, 1T
A close reading of the poetry of Italy's finest lyric poet in the light of his prose writings and within the context of Classical and Romantic traditions. *Prerequisite:* ITA200Y/210Y.
- ITA326H **Petrarca** (Offered in alternate years) 2L, 1T
A study of Petrarca's poetry with some consideration of his influence on Italian and other literatures. *Prerequisite:* ITA200Y/210Y.
- ITA340Y **Creative Italian (I)** 2L, 1P
Advanced language course designed to give the student oral and written proficiency. Selected readings on questions of topical interest, discussions, compositions, some translation. *Prerequisite:* ITA200Y/210Y.
- ITA355Y **Advanced Translation** 1L, 2P
Techniques and theories of translation, using modern texts containing a variety of linguistic codes. Some simultaneous translation. *Prerequisite:* ITA340Y/P.I.
- ITA371H **Introduction to Modern Italian Poetry** 2L, 1T
A critical appraisal of the poetry of the post-Romantic era and of the first half of the twentieth century. Poets studied: Pascoli, D'Annunzio, Gozzano, Saba, Ungaretti, Montale and others. *Prerequisite:* ITA200Y/210Y.
- ITA390Y **20th-Century Novel and Drama** (Formerly ITA360Y)(Offered in alternate years) 2L, 1S
Masterpieces of modern Italian fiction and drama analyzed against the background of modern-day Italy. One work will be examined in detail from each of the following novelists and playwrights: Svevo, Vittorini, Buzzati, Calvino, Pirandello, Betti and De Filippo. *Prerequisite:* ITA200Y/210Y.
- ITA395H **Major Novels of the 19th-century** 2L, 1T
A study of the genesis and evolution of the Italian novel, with a close reading of Alessandro Manzoni's *I promessi sposi* and Giovanni Verga's *I Malavoglia*. *Prerequisite:* ITA200Y/210Y.

- ITA420Y **Renaissance Epic Poetry** 2L, 1T
A study of Ariosto's *Orlando furioso* and Tasso's *Gerusalemme liberata* within the context of epic poetry. *Prerequisite*: ITA200Y/210Y.
- ITA427H **Boccaccio** 2L, 1T
A critical portrait of one of "the three crowns of Florence" through an examination of representative selections from his minor works and a detailed analysis of his masterpiece, the *Decameron*. *Prerequisite*: ITA200Y/210Y.
- ITA436Y **The 18th-century in Italy** (Offered in alternate years) 2L, 1T
An investigation of the intellectual trends and literary forms in Italy from the pre-enlightenment to Romanticism. Readings from the works of Vico, Muratori, Gravina, Metastasio, Rolli, Parini, Verri, Beccaria, Goldoni, Alfieri and others. *Prerequisite*: ITA200Y/210Y.
- ITA450H **Advanced Composition** (Offered in alternate years) 1L, 1T
Analysis of expressive strategies and discussion of problems relating to syntax, morphology and vocabulary as they arise from individual compositions and essays. *Prerequisite*: ITA210Y/340Y.

LATIN

(See Classics)

- LAT100Y **Introductory Latin** 4S
A course designed to acquaint the student with the essentials of the Latin language and to introduce him to Roman literature.
- LAT210H **The Poetry of Catullus** 3S
(I) Selections from the work of Catullus, including both the love poetry and the poetry of social comment with particular emphasis on the literary value of Catullus' work; includes study of the Latin language. *Prerequisite*: Grade 13 Latin/LAT100Y/130Y(G).
- LAT211H **The Poetry of Horace** 3S
(I) Selections from the *Odes* of Horace, with particular emphasis on the literary quality of Horace's lyric poetry; includes study of the Latin language. *Prerequisite*: Grade 13 Latin/LAT100Y/130Y(G).
- LAT228Y **Introduction to Roman Law** (Offered in alternate years) 2T
The purpose of this course is to improve the Latin of students with some interest in law. The reading will be selections from the second century A.D. textbook of Roman law, the *Institutes* of Gaius, which divides its subject into the law of persons, the law of things and the law of actions. Schultz' *Classical Roman Law* will be used for reference. The course will include some lectures on the history of Roman Law. *Prerequisite*: Grade 13 Latin, LAT100Y/130Y(G).

LINGUISTICS

The aim of Linguistics is to develop an understanding of how all languages work, and of how languages use disparate means for the same effects. The theme is the unity and the variety of human language. Such a theme subsumes many variations, including grammatical theory and its application to data, language divergence and convergence in space and time, the sociocultural stratification of linguistic systems, normal and pathological language behaviour and language learning.

Undergraduate Linguistics is a valuable component of a liberal education, especially in a multi-lingual country such as Canada. It is also valuable as pre-professional training for people interested in teaching English, French or other languages, in areas of rehabilitative medicine such as audiology or speech therapy, in special education, in work with native peoples or with immigrant groups in our society, in religious and missionary work, or in academic disciplines such as psychology, philosophy, literature and language studies, where the contribution of linguistics is increasingly recognized as important.

Students interested in linguistics should consider the following: ENG200Y, FRE272Y, ITA330H, MAT204H, PHL245H, PSY306H, PSY367H, PSY375H, PSY378H, SOC110Y/152Y (formerly CMM100Y), SOC330Y(formerly CMM309Y), SPA425H(formerly SPA325H).

LIN100Y **Introduction to General Linguistics**

2L, 1T

Aims at describing certain universals in the phonological, morphological, syntactic and semantic structures of language. The principal purpose is not indoctrination into any particular school of linguistic thought but rather to acquaint students with the various possibilities of analyzing the components of language. Since the primary goal is to serve as a valuable tool for students of English and foreign literatures, languages, psychology, anthropology, sociology, communications, etc., the course uses a multi-disciplinary approach.

MATHEMATICS

(See also Applied Mathematics)

Faculty Advisor: Professor J.E. Lebel

Mathematics historically was concerned with concrete notions of space and number. From these concrete notions have evolved such abstract ideas as "set" and "group" which form the subject matter of contemporary Mathematics, and Mathematics today may be considered as the art or science of making deductions from given statements. The deductions themselves and the methods used to make them, come within the scope of Mathematics, while the original statements (hypotheses) largely lie outside. The observation that the results deduced apply to any collection of objects and relations that satisfy the hypotheses is the key to the immense power and surprisingly wide utility of Mathematics.

There are many different motivations for the study of Mathematics. To the humanist, Mathematics is part of the mainstream of human culture. To the scientist, engineer, or social scientist it is an important working tool. To the mathematician, it is an end in itself. The Department of Mathematics attempts to provide courses to suit all these diverse viewpoints.

The pure mathematician is interested in abstract mathematical structures in their own right. He is guided by considerations of taste, beauty, and rigour and may view his subject as an art. The main fields of pure Mathematics are algebra, analysis, geometry, topology, and foundations.

The applied mathematician is more interested in how he can use those structures to study some aspect of the world around him. Applied Mathematics, originally used to describe the application of Mathematics to certain classical fields of Physics, today includes such fields as optimization theory, communication theory, combinatorics, theory of games, and numerical analysis. (Such areas as programming languages and automata form part of the rapidly growing subject of Computer Science. Although historically the main applications of Mathematics have been to physical sciences, contemporary Mathematics has significant utility for nearly all sciences and for such diverse subjects as Economics and Linguistics. Mathematics is the language of precise thought.

The professional mathematician is most likely to find employment in universities, in the civil service or in government laboratories, and in financially or technologically oriented business firms. Research positions require post-graduate study. A training in Mathematics has traditionally been a strong preparation for careers in law and business; today it is an excellent foundation for further work in a wide variety of fields in the sciences and social sciences, especially when the interplay of many complex factors is involved.

The Specialist Programme in Mathematics is recommended to students who want a deep knowledge of the subject, such as those who are contemplating graduate work in Mathematics, including Applied Mathematics or Mathematical Physics. The programme is highly recommended as preparation for teaching in secondary schools. Mathematics can also be combined with other fields of study, such as Actuarial Science, Biology, Chemistry, Economics, Linguistics, Philosophy, Psychology or Statistics.

The sequential nature of Mathematics means that prerequisites are essential in many courses and steady work is usually required. Students are advised to consult the prerequisites of courses in which they may be interested in subsequent years. A student who wishes to take a course in Mathematics for which he lacks the required prerequisite may be permitted to do so if, in the opinion of the Department, he demonstrates adequate preparation for the course.

First year students with adequate preparation who want a substantial mathematics course either for its own sake or in conjunction with another field of study are advised to take MAT138Y.

Erindale College offers a range of courses sufficient for specialization in Mathematics.

The programme in Mathematics and Philosophy is designed to emphasize those aspects of each discipline which are of particular interest to the other, both historically and currently.

The specialist programme in Mathematical Sciences at Erindale is jointly administered by the departments of Computer Science and Mathematics and Statistics. The programme gives a student an understanding of the basic areas of mathematics, statistics and computer science with a view to the application of each. The programme's graduates will find that their flexible training has prepared them for careers in government, industry, business or the teaching profession.

Specialist programme

11 courses are required in a programme of at least 20 courses:

MAT138Y, 204H, 228H

MAT239Y; APM251Y

MAT310H, 334H, 349H, 348H

5 full-course equivalents chosen from the following:

APM311H, 336H, 351Y; STA242Y

MAT304H, 305H, 312H, 328H, 329H, 344H, 359H, 404H, MAT315H(G), 365Y(G), 439H(G)

NOTE: Students interested in graduate study should make the following substitutions in consultation with the Mathematics department: MAT369H(G) and 469H(G) for MAT334H, MAT340Y(G) for MAT348H and MAT349H, MAT350Y(G) for MAT310H and MAT439H(G).

Minor programme (Mathematics)

6 $\frac{1}{2}$ courses are required in a programme of at least 15 courses:

MAT138Y, 204H, 228H, 239Y, 334H, 348H; APM251Y

3 half course equivalents from:

MAT308H, 310H, 312H, 328H, 329H, 344H, 349H, 359H, 402H, APM311H, 336H, 351Y, STA242Y.

Specialist programme (Mathematics and Philosophy)

10 courses are required with an average of B- or better, in a programme of at least 20 courses:

MAT138Y; PHL100Y; MAT204H/PHL245H

MAT239Y, MAT304H/PHL345H, MAT310H/PHL349H, PHL246H

MAT404H/PHL445H, MAT305H/PHL346H

(MAT348H, MAT349H)/MAT340Y(G), CSC438H, MAT420Y(G); PHL342H(G); MAT312H/PHL347H, PHL348H(G), PHL351H(G).

Specialist programme in Mathematics and Philosophy (consult Professor F. Tall or W. Weiss, Department of Mathematics, and Professors A. Urquhart or B. Katz, Department of Philosophy).

Specialist programme (Mathematical Sciences)

10 courses are required in a programme of at least 20 courses.

All of: MAT138Y, CSC139H/149H, CSC158H, MAT204H, MAT228H, MAT239Y, APM251Y, STA242Y, CSC248H, CSC258H, MAT334H, CSC348H.

Two of: MAT310H, 329H, 344H, 349H, 359H.

One stream from the following:

a) one full course equivalent of APM351Y, 311H and 336H

b) (STA302H and STA402H)/(STA312H and STA412H)

c) CSC228H and one of CSC336H, 356H, 368H, 438H, 448H

It is recommended that students take MAT138Y, CSC139H/149H, CSC158H, MAT204H and MAT228H in their first year and complete MAT239Y, APM251Y, STA242Y, CSC248H, CSC258H, CSC348H and MAT334H before the end of their third year. Students who wish to include CSC356H in their programme are counselled to complete CSC228H before CSC356H; CSC228H may be taken in the second year.

Students should register with the departments before the end of their second year. Indeed, department members are always willing to give counsel regarding course selection or other matters.

MAT124H	Finite Mathematics	2L, 2T
	Vectors and linear transformations. Matrices and their properties. Notions of probability. Applications to linear programming, game theory, Markov chains. <i>Exclusion:</i> MAT234Y.	
MAT132Y	Calculus	2L, 2T
	Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of calculus. Complex numbers. Sequences and series. Elementary linear algebra. <i>Exclusion:</i> MAT105H, 110Y(G), 115H, 130Y, 134Y, 135Y, 138Y, 139Y, 150Y(G). <i>Prerequisite:</i> Grade 13 MAT C or R & F.	
MAT138Y	Calculus	2L, 2T
	Introduction to real and hyperreal numbers, differentiation, continuity, integration and calculation of limits. This course stresses the theoretical basis as well as the computational methods of the Calculus. <i>Exclusion:</i> MAT105H, 110Y(G), 115H, 130Y, 132Y, 134Y, 135Y, 139Y, 150Y(G). <i>Prerequisite:</i> Grade 13 MAT A and R & F and C.	
MAT204H	Modern Symbolic Logic (Same as PHL245H)(Formerly PHL250H, PHL290H)	2L, 1T
	Propositional calculus and quantification theory. The aims of the course are to develop a clear understanding of logical concepts and to acquaint students with techniques of natural deduction.	
MAT214H	Differential Equations	2L, 1T
	Ordinary differential equations. Emphasis throughout on applications. This half course is identical with the first half of MAT235Y. <i>EXCLUSIONS:</i> APM251Y, MAT230Y(G), 234Y, 235Y. <i>Prerequisite:</i> MAT134Y/135Y/139Y/150Y(G).	
MAT228H	Linear and Multilinear Algebra	2L, 1T
	A review of basic linear algebra. An introduction to multilinear functions and determinants. <i>Prerequisite:</i> MAT134Y/135Y <i>OR Corequisite:</i> MAT138Y.	
MAT234Y	Advanced Calculus For Social Scientists	2L, 1T
	Sequences and series. Differential calculus for functions of several variables. Taylor series in one and many variables. An introduction to integral calculus for functions of two variables. An introduction to optimization; extremal problems. Lagrange multipliers; linear programming. Difference and differential equations emphasizing linear systems. Applications to economics and Markov chains. <i>Exclusion:</i> MAT230Y, 235Y, 239Y, 250Y. <i>Prerequisite:</i> MAT134Y/139Y/150Y.	
MAT235Y	Advanced Calculus For Scientists	2L, 1T
	Sequences and series. Differential and Integral calculus of functions of several variables. Line and surface integrals. Ordinary differential equations. Applications. <i>Exclusion:</i> MAT214H, 230Y(G), 234Y, 239Y, 250Y(G), APM251Y. <i>Prerequisite:</i> MAT134Y/135Y/139Y/150Y(G).	

- MAT239Y Calculus and Linear Algebra II** 2L, 1T
Determinants, eigenvalues and eigenvectors. Elements of topology in \mathbb{R}^2 and \mathbb{R}^3 . Curves and surfaces in \mathbb{R}^3 . Differential calculus of vector-valued functions of a vector variable, with emphasis on vectors in two and three dimensional Euclidean space. Applications. Taylor's series in several variables. Uniform convergence. Integral calculus, line and surface integrals, Stokes' theorem. *Exclusion:* MAT224Y(G)/225Y(G)/230Y(G)/234Y/235Y/250Y(G). *Prerequisite:* MAT139Y.
- MAT304H Intermediate Logic** (Same as PHL345H) 2L, 1T
A sequel to MAT204H, treating soundness and completeness of propositional and quantificational logic, and other metalogical topics. *Prerequisite:* MAT204H.
- MAT308H Philosophy of Logic and Mathematics** (Same as PHL346H)(Formerly PHL351H) 2S
(Formerly MAT305H)
Such topics as: Platonism versus nominalism, the relation between logic and mathematics, epistemological implications of Gödel and Church's theorems, counterfactuals, necessity and possibility, constructism. *Prerequisite:* MAT304H, C- or better, P.I. or MAT310H.
- MAT310H Set Theory** (Same as PHL349H)(Formerly MAT209H) 2L, 1T
An intuitive development of set theory with some attention to philosophical problems surrounding it. *Exclusion:* MAT309H(G). *Prerequisite:* Three half courses in Mathematics, including MAT204H. Either MAT129Y or MAT139Y is recommended.
- MAT312H Many-Valued and Modal Logics** (Same as PHL347H) 2L, 1T
Many-valued and modal propositional logics and their interrelations; logical matrices and possible-world semantics: problems of interpretation and philosophical applications. *Prerequisite:* MAT204H, 304H.
- MAT328H Algebra and Geometry** 2L, 1T
A continuation of MAT228H with emphasis on applications of linear algebra to geometrical and kinematical problems. Angles in space, the differential geometry of curves and the motion of rigid body. *Prerequisite:* MAT228H.
- MAT329H Geometric Structures** (Offered in alternate years) 2L, 1T
A survey course in geometry touching on elementary geometry from an advanced point-of-view, geometric transformations, geometric invariants, Euclidean, projective, affine, and non-Euclidean geometries. *Prerequisite:* MAT239Y/MAT260H.
- MAT334H Complex Variables** 2L, 1T
Theory of functions in one complex variable; analytic and meromorphic functions; Cauchy's theorem, residue calculus, conformal mappings; introduction to analytic continuation, harmonic functions. *Exclusion:* MAT319H, 330Y(G). *Prerequisite:* MAT239Y/250Y(G).
- MAT344H Introduction to Combinatorial Mathematics** 2L, 1T
Basic counting principles. Inversion formulas, principle of inclusion-exclusion. Generating functions. Permutations with restrictions. Graph theory and applications. *Prerequisite:* CSC348H.
- MAT348H Introduction to Applied Algebra** (Same as CSC348H) 2L, 1T
A universal algebra approach to the structures of modern algebra, with a view to applications to computer science. The emphasis is on rings and groups: in particular the ring of integers. (i.e. number theory) and the ring of polynomials over a field. The generalized Chinese Remainder Theorems is studied with applications to algebraic manipulation by computer. *Exclusion:* MAT229H/330H/340H(G)/345H(G). *Prerequisite:* MAT228H.
- MAT349H Abstract Algebra** 2L, 1T
Group theory and field theory leading to Galois theory and its applications. *Prerequisite:* CSC348H.

- MAT359H Introduction to Topology** 2L, 1T
Topics selected from point-set, geometric, and algebraic topology. *Prerequisite:* MAT239Y/250Y(G).
- MAT399H Independent Work in Mathematics**
A prospective student should select his topic and advisor before the end of second year and discuss the topic with his advisor. *Prerequisite:* Acceptance by an advisor.
- MAT402H Advanced Topics in Logic** 2L, 1T
A selection of topics of contemporary interest in mathematical logic. These may include: proof theory, incompleteness, decidability or the theory of recursive functions. *Prerequisite:* MAT304H, 310H.

PHILOSOPHY

Faculty Advisor: Professor W.J. Huggett

ERINDALE PHILOSOPHY HANDBOOK. Because of space and time restrictions, the Calendar gives only brief and abstract descriptions of courses. The Philosophy Handbook, which is produced in the spring, gives detailed information on course outlines, requirements, reading, instructors, time- tabling, etc. It is available at the Philosophy Department, Room 235 North Bldg. phone 828-5296, or will be mailed on request. It is an essential supplement to the Calendar and students are urged to consult it.

The Philosophy Discipline Representative and staff will be glad to offer advice and assistance. To arrange for counselling, by a faculty member, phone 828-5296.

The Greek words from which "philosophy" is formed mean "love of wisdom" and all great philosophers have been moved by an intense devotion to the search for wisdom. What distinguishes philosophy from the physical and social sciences is its concern not only with the truths which are discovered by means of specialized methods of investigation, but with the implications such discoveries have for human beings in their relations with one another and the world. Moreover, philosophy has an abiding interest in those basic assumptions about the nature of the physical and social world, and about the nature of inquiry itself, which underlie the methodology by means of which scientists seek to explain their observations.

Philosophy takes no belief for granted, but examines the grounds for those beliefs which make up people's fundamental views of the world. Here are a few fundamental beliefs, some held by some people, some by others: "Telling lies is always wrong", "Some things can never be known", "The material world is all that exists", "What is right or wrong depends entirely on one's society or culture", "People are inherently selfish", "Life must have a transcendent purpose". There are many other similar beliefs which people either assume as common sense or dogmatically assert. Philosophers *think* about them as thoroughly and systematically as possible.

The Philosophy Department offers courses which study basic works of famous philosophers of the past taken in their historical settings, and it offers courses in which students are trained to think critically about philosophical issues themselves. A glance through the courses offered in Philosophy will inform any prospective student of the names of philosophers studied, and the special areas investigated in the Philosophy programmes at the University of Toronto. A dictionary or encyclopedia will supply standard definitions of logic ethics, epistemology, and metaphysics. But whoever wants to know what philosophy is must do it. A student can learn a great deal from a study of what has been written by the great philosophers through history. But such study is only an important preliminary. To read without bold and critical thinking is next to useless.

Some students may not wish to undertake more than a few courses in philosophy to supplement their work in other fields. They may make a free choice among the courses offered by the Department. The only restrictions are that they take no more than one 100-level course and that 300- and 400- level courses presuppose previous work in philosophy. All courses at the 200-level

are open to any student. Many students will find that their interests embrace philosophy and some other subject. The Philosophy Department has joint programmes with other departments, including English, History, Religious Studies, Mathematics, Physics, Biology, Sanskrit and Indian Studies, Greek, and Linguistics. Other students will find that their primary interest is in philosophy. The Specialist Programme is designed for such students. Its completion may be a step toward graduate study in philosophy, or it can lead in other directions; law, journalism, theology, and politics are some possibilities. Also it is hoped that in the near future a degree in Philosophy will qualify one for entry to a Type A certificate programme at the Faculty of Education. It cannot be stressed too strongly, however, that one of the chief rewards of studying philosophy must always be intrinsic to the subject itself.

Specialist programme:

The equivalent of 9 full courses in Philosophy in a programme of at least 20 courses, with at least half of the Philosophy courses above the 200 level. A student's programme must be worked out with the appropriate staff Specialist-Co-ordinator. This programme will normally be established by the end of the student's second year, and confirmed at registration in subsequent years. While taking account of the student's personal interests and aims, the programme will normally include at least the stated number of courses in each of the following: 2 full courses or equivalent, in History of Philosophy. One $\frac{1}{2}$ course or equivalent, in Logic. One full course or equivalent in Epistemology/Metaphysics. One full course or equivalent in Ethics/Social and Political and one $\frac{1}{2}$ course or the equivalent in Individual Studies.

Minor programme

The equivalent of 6 full Philosophy courses in a programme of at least 15 courses, with at least half of the Philosophy courses above the 200 level.

- | | | |
|---------|---|----|
| PHL100Y | Logic, Knowledge, and Reality
An introduction to the areas of philosophy, emphasizing logic, theory of knowledge, and metaphysics. Elementary techniques of modern symbolic logic and problems in inductive logic and probability. What can be known with certainty? What is reality? Are there limits to knowledge? <i>Exclusion:</i> PHL101Y, 102Y, PHI103Y, 104Y, 105Y. | 3L |
| PHL101Y | God, Mind and Value
An introduction to philosophy, stressing conceptions of human nature and of the good life. The religious dimension of life; arguments for the existence of God; free will; mind and body in relation to the scientific image of Human nature; the question of a rational foundation for morality; the relation of individual to state; authority, liberty, and justice. <i>Exclusion:</i> PHL100Y, 102Y, PHI103Y, 104Y, 105Y. | 3L |
| PHL102Y | Philosophical Classics
A historical introduction to philosophy, including philosophers such as Plato, Aristotle, Aquinas, Descartes, Berkeley, Hume, Mill, Nietzsche, Russell. <i>Exclusion:</i> PHL100Y, 101Y, PHI103Y, 104Y, 105Y. | 3L |
| PHL200Y | Birth of Western Philosophy (Formerly PHL240H, 241H)
Classical doctrines of Plato and Aristotle concerning the universe and God, human knowledge and logic, soul and body, moral values and the good life. Plato's predecessors, the pre-Socratics and Socrates, and post-Aristotelian developments in Stoicism, Epicureanism and neo-Platonism. | 3L |
| PHL210Y | 17th and 18th Century Philosophy (Formerly PHL243H, 244H, PHI220Y)
Classic texts by European philosophers (e.g. Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume and Kant.) Their attitudes toward science and religion, and their theories about the nature of the world and of human knowledge, culminating in the "Copernican Revolution" of Kant. | 3L |
| PHL220H | Introduction to Existentialism (Formerly PHL230H, PHI240H, 241Y)
Existentialists have influenced theology, psychology, anthropology, literature and art. Several thinkers are studied, with emphasis on the sense of human existence, creativity and freedom. | 3L |

- PHL230H **Knowledge, Belief, and Truth** (Formerly PHL220H, PHI252H) 3L
An introduction to epistemology: the nature and scope of human knowledge. Perception, meaning, evidence, certainty, skepticism, belief, objectivity, and truth. Readings from both historical and contemporary thinkers.
- PHL231H **Existence and Reality** (Formerly PHL260H, PHI255H) 3L
An introduction to metaphysics: conceptions of the overall framework of reality. Typical problems: existence and essence; categories of being; mind and body; freedom and determinism; causality; space and time; God.
- PHL235H **Philosophy of Religion** (Formerly PHL261H) 3L
The nature of religion; religious faith; arguments for God's existence; religious experience; religion and human autonomy; the problem of evil; religious and atheistic existentialism. *Exclusion:* PHL236Y.
- PHL240Y **Philosophy of Human Nature** (Formerly PHL280H, 281H, 215H, PHI256Y) 3L
An introduction to the philosophy of mind. Consciousness and the body; personal identity and survival; knowledge of other minds; free will and the nature of human action.
- PHL241H **Philosophy of the Emotions** 3L
Typical problems studied: Can emotions be assessed as rational or irrational? Do we have immediate knowledge of our emotions? Are emotions right or wrong in themselves? Are we responsible for them? How do our socialized emotional repertoires condition our conception of ourselves, including our gender identity? Do they encourage harmful stereotypes?
- PHL243H **Philosophy of Human Sexuality** (Formerly PHL209H) 3L
Philosophical issues about sex and sexual identity will be considered in the light of biological, psychological, and ethical theories of sex and gender. Some typical issues: the analysis of the concept of gender; male and female sex roles; theories of psychosexual development; sexual morality; "natural", "normal", and "perverse" sex; sexual liberation; love and sexuality.
- PHL244H **Human Nature and Abnormality** 3L
An application of methods and theories in philosophy to controversies concerning such issues as the criteria of sanity, normality, or rationality; intelligence and intelligence testing; male-female sex roles; homosexuality; alienation; or other issues.
- PHL245H **Modern Symbolic Logic** (Formerly PHL250H, PHI290H) 3L
The application of symbolic techniques to the assessment of arguments. Propositional calculus and quantification theory. Logical concepts; techniques of natural deduction.
- PHL246H **Probability and Inductive Logic** (Formerly PHL251H) 3L
The elements of axiomatic probability theory, and its main interpretations (frequency, logical, subjective). Reasoning with probabilities in decision making and science.
- PHL250H **Philosophy of Language** (Formerly PHL282H) 3L
The nature of language as a system of human communication, theories of meaning and meaningfulness, and the relation of language to the world and to the human mind.
- PHL255H **Philosophy of Science** 3L
Philosophical attempts to understand and systematize the implications of advances in the physical, social and life sciences: explanation and theory; induction and evidence; cause and effect; space and time; purpose, motive, and freedom.
- PHL265H **Introduction to Political Philosophy** (Formerly PHL210H, PHI270Y) 3L
Some main problems of political philosophy; anarchism and the legitimacy of the state; the evaluation of forms of government; liberalism and the limits of state authority; the justification of civil disobedience and revolution; social justice.

- PHL269H **Political Theories: Modern** (Formerly PHL211H) 3L
European philosophers from the seventeenth to the nineteenth century on such topics as the grounds of law and authority, the relation of individual and society, concepts of freedom and rights, the impact of economics on political thought. Authors may include Hobbes, Locke, Rousseau, Hegel, Marx, Mill.
- PHL272H **Philosophy of Education** (Formerly PHL214H, PHI278H) 3L
The nature, aims and content of education; learning theory; education and indoctrination; the teaching of morals and the morality of teaching; the role and justification of educational institutions, their relation to society and to individual goals; authority and freedom in the school.
- PHL274H **Contemporary Social Issues** 3L
Against the background of some major social and political theories, this course will explore such practical problems as nationalism, racism, sexism, inequality, civil disobedience, revolution, and political radicalism.
- PHL275H **Introduction to Ethics** (Formerly PHL200H) 3L
Typical topics: relativism; the nature and limits of moral responsibility; the relation between self-interest and morality; the nature of moral theories. *Exclusion:* PHL276Y.
- PHL281H **Morality, Medicine, and the Law** (Formerly PHL/PHI276H) 3L
Moral implications of recent developments in medicine and the life sciences; related legal and social issues. Euthanasia, health care priorities, abortion, fertility control against the background of some major ethical theories.
- PHL282H **Ethics, Health Science, and the Law** (Formerly PHI277H) 3L
Moral implications of recent developments in medicine and the life sciences; related legal and social issues. Experimentation on human subjects, transplants, behaviour modification, and genetic control, against a background of some major ethical theories.
- PHL285H **Aesthetics** (Formerly PHL206H in 1976-77, PHL202H prior to 1976-77) 3L
Some central areas in philosophy of art such as the nature of a work of art; definitions and theories of arts, aesthetic experience, perception and sensibility; objectivity in criticism; standards of taste or evaluation.
- PHL288H **Literature and Philosophy** (Formerly PHL204H) 3L
The literary expression of philosophical ideas and the interplay between literature and philosophy.
- PHL312H **Kant** 2S
A systematic study of *The Critique of Pure Reason*. *Prerequisite:* PHL210Y.
- PHL313H **Issues in Modern Philosophy** 2S
Some aspect of modern philosophy not typically covered in other courses in this category, e.g. Kant's moral philosophy or Spinoza's political philosophy. *Prerequisite:* One of PHL/PHI210Y, PHL310H, PHL311H, PHL/PHI312H.
- PHL317H **Issues in 19th Century Philosophy** 2S
A theme in several 19th Century philosophers or some aspect of a philosopher's work not typically covered in other courses. *Prerequisite:* 300 level work in the relevant area.
- PHL320H **Phenomenology** (Formerly PHL330H, PHI340Y) 2S
Phenomenological method examined through a problem or through a study of some philosopher(s), e.g., Meinong, Husserl, Merleau-Ponty. *Recommended preparation:* PHL220H.

- PHL326H **Wittgenstein** (Alternates with PHL350H) 2S
Wittgenstein's views on the structure and function of language, meaning, the possibility of a private language, and the concepts of feeling and thinking. The *Tractatus Logico-Philosophicus* and the *Philosophical Investigations*. *Recommended preparation*: PHL210Y, 245H.
- PHL327H **Contemporary Analytic Philosophy** (Formerly PHL348H) 2S
Problems in analytic philosophy, stressing new directions and some recent controversies. *Prerequisite*: PHI/PHL245H/P.I.
- PHL332H **Issues in Metaphysics** 2S
Typical problems: ontology and categories; ontological commitment; the objectivity of space and time: causality and determinism; mind and body.
- PHL333H **Issues in Epistemology** 2S
Typical problems: knowledge and belief, perception, the analytic-synthetic distinction, theories of truth, necessity and the *a priori*.
- PHL340H **Issues in Philosophy of Mind** (Alternates with PHL341H) 2S
Typical problems: the brain-mind identity theory; intentionality and the mental; personal identity; the nature of human action. *Recommended preparation*: PHL240Y.
- PHL341H **Freedom, Responsibility, and Human Action** (Alternates with PHL340H) 2S
Human action, and the nature of freedom and responsibility in the light of contemporary knowledge concerning the causation of behaviour. *Recommended preparation*: PHL240Y.
- PHL345H **Intermediate Logic** (Same as MAT304H)(Formerly PHL350H, PHI390H) 2L, 1T
A sequel to PHL245H, treating soundness and completeness of propositional and quantificational logic, and other metalogical topics. *Prerequisite*: PHL245H.
- PHL346H **Philosophy of Logic and Mathematics** (Same as MAT308H) (Alternates with PHL347H) 2S
Platonism versus nominalism the relation between logic and mathematics, epistemological implications of Godel's and Church's theorems, counterfactuals, necessity and possibility, extensional and intensional contexts, synonymy, intuitionism, constructivity. *Prerequisite*: PHL245H.
- PHL347H **Many-Valued and Modal Logics** (Same as MAT312H) (Formerly PHL352H) 2S
(Alternates with PHL346H)
Many-valued and modal propositional logics and their interrelations; logical matrices and possible-world semantics; problems of interpretation and philosophical applications. *Prerequisite*: PHL245H.
- PHL349H **Set Theory** (Same as MAT310H)(Formerly PHL353H) 2L, 1T
An intuitive development of set theory with some attention to philosophical problems surrounding it. *Prerequisite*: PHL245H.
- PHL350H **Philosophy and Grammar** (Alternates with PHL326H) 2S
The claims of Logical Positivism, "Oxford Philosophy", Structuralism, or modern Generative Linguistics about the relevance of grammar to philosophy. The rationale of going from structural considerations to philosophy. The rationale of going from structural considerations to hypotheses about mind, metaphysics, and meaning.
- PHL362H **Philosophy of History** 2S
Typical questions: Has history any meaning? Can there be general theories of history? How are the findings of historians related to the theories of metaphysics and of science? Is history deterministic? Must the historian make value judgements? Is history a science or an art? Are there historical forces or spirits of an epoch?
- PHL365H **Contemporary Political Theory** (Alternates with PHL375H) 2S
Some important twentieth-century writings. *Prerequisite*: one of PHL265H, PHL268H, 269H.

PHL370H	Issues in Philosophy of Law (Formerly PHL312H) A selection of issues and texts.	2S
PHL375H	Contemporary Ethical Theory (Alternates with PHL365H) A selection of issues and texts. <i>Prerequisite:</i> One of PHL275H, 278H, 279H.	2S
PHL395H/396H/397H/398H/399H	Special Topics	2S
PHL400H	Advanced Topics in History of Philosophy (Formerly PHL440H)	2S
PHL410H	Advanced Topics in Problems of Philosophy.	2S
PHL445H	Advanced Topics in Logic (Same as MAT402H) <i>Recommended preparation:</i> Three courses in logic above the 200 level.	2S
PHL496H/497H/498H/499H	Individual Studies	

PHYSICS

Faculty Advisor: Professor S.S.M. Wong

Physics was born of a desire to understand nature in a quantitative way. Guided by experiment and intuition, physicists arrive at mathematical relations among various concepts and these are then tested experimentally and extended by further research. The physics courses offered at Erindale are designed to help students both to understand and to use the concepts and relationships which have been developed, and to appreciate the need for continual questioning of scientific theories. The liberal arts student should gain insight into the nature of scientific investigation, while the student whose interest is in sciences other than physics should acquire a background knowledge leading to a deeper understanding of his own discipline. Students intending to specialize in physics will meet a broad programme of courses which will prepare them for advanced study.

The present programme in Physics at Erindale College employs the most up-to-date demonstration apparatus and undergraduate facilities. It has been designed to meet the diverse needs of the physics students of the College.

Students wishing to specialize in physics should consult a physics professor.

Recommended first-year programme:

First year students are enrolled in a combined PHY118/140 Y course with common lectures and laboratories in the fall term. Students with a minimum of 70% at Christmas are eligible for PHY140Y and are strongly encouraged to enroll in PHY140Y for the spring term.

- i) for physics and science specialists
PHY140Y, MAT132Y/138Y.
- ii) for pre-meds, general interest, etc.
PHY118Y, MAT132/138Y.

Second Course in Physics:

PHY210Y is recommended for students in Biology, Geography, Anthropology and, in general, anyone who wishes a second course in physics.

PHY220H is recommended for students in Survey Science.

PHY110Y, 135Y 211Y, 330Y, 355Y, 450Y, 451H and 455H are no longer offered.

Specialist programme

14 courses required in a programme of at least 20 courses:

PHY135Y/140Y; MAT138Y/139Y

PHY230Y/231Y, 254Y, 256H (graduation after 1979-80); MAT239Y, 214H/APM251Y

PHY325Y, 330Y/340Y, 352Y, (351H and 354H)/355Y; APM311H/351Y, MAT334H/(MAT319H for graduation in 1978/79 only)

PHY425Y, 453H, 456H/458H, 470Y/471Y/(a fourth year physics course on the St. George campus)

Minor programme

7 1/2 courses required in a programme of at least 15 courses:

PHY110Y/118Y/135Y/140Y; MAT132Y/138Y

PHY210Y/211Y, 230Y/231Y, 256H (for graduation after 1978/79), MAT235Y

PHY325Y/330Y/340Y; APM311H; MAT319H

NOTE: PHY210Y/211Y may be taken in year 2 or 3 in minor programme.

PHY110Y, 135Y, 211Y, 330Y, 355Y, 450Y, 451H and 455H are no longer offered.

PHY118Y **World of Physics** (Formerly PHY110Y)

2L, 1 1/2P, 1T

This course is recommended for students interested in a general survey course in physics. Presented is an overview of physics starting from its classical foundations, through its evolution to the present and some of the challenges which lie ahead. Fall Term: The topics include space, time and matter; special relativity; forces, energy and their sources; conservation laws; wave motion, light and sound. Spring Term: The material concentrates on electricity, magnetism and its applications; atomic and modern physics; nuclear and elementary particle physics; recent developments.

NOTE: Students with a minimum of 70% at Christmas are strongly encouraged to transfer enrollment to PHY140Y for the spring term. PHY118Y is a prerequisite for PHY210Y only. Entrance from PHY118Y into other second year physics courses requires a minimum final mark of 70% in PHY118Y and permission of instructor. *Exclusion:* PHY110Y/135Y/140Y. *Prerequisite:* Grade 13 MAT/R&F/C. *Corequisite:* MAT132Y/138Y.

PHY140Y Principles of Physics (Formerly PHY135Y)

2L, 1 1/2 P, 1T

Designed to provide science students with a thorough quantitative foundation in physics and experience in applying physical principles. The course is a systematic development of classical and relativistic mechanics and their application to current problems in different sciences. Fall Term: The topics include space, time and matter; special relativity; forces, energy and their sources; conservation laws; wave motion, light and sound. Spring Term: Two- and three-dimensional motion of particles and solid bodies, rotational motion; gravitational fields including planetary and stellar motion, fluid dynamics and physics of non-rigid bodies. This material will be discussed with applications to problems in elementary particle physics, energy research, nuclear physics, geophysics and other sciences.

NOTE: A minimum mark of 70% at Christmas will be required to continue PHY140Y for the spring term. Students not qualifying in this way must transfer to PHY118Y for the spring term. *Exclusion:* PHY110Y/118Y/135Y. *Prerequisite:* Grade 13 PHY, Grade 13 MAT, R&F, C. *Corequisite:* MAT132Y/138Y. *Recommended preparation:* Good standing in Grade 13 physics and mathematics.

PHY210Y Applied Biological and Medical Physics

2L, 1T

A course of selected examples from applied physics having particular importance to biophysics, medicine and engineering. Emphasis will be placed on using calculus to solve such problems as exponential growth and decay. Topics include: optics, lasers and vision; basic electronics and the electrical activity of nerves; energy generation, heat and thermal conductivity; surface tension, fluid flow and the circulatory system; biomechanics and the strength of materials; acoustics and audiology; radioactivity and nuclear medicine.

Note: This course cannot be used for credit towards a specialist programme in physics. **Exclusion:** PHY220H. **Prerequisite:** PHY110Y/118Y/135Y/140Y, MAT(105F & 115S) /130Y/132Y/134Y/135Y/138Y/139Y.

- PHY220H Optics and Applied Physics** 2L(F), 1T
 An introduction to problems in optics and applied physics primarily intended for students enrolled in physics (optional) or survey science. The course consists of the first half of PHY210Y followed by a separate final examination. Emphasis will be placed on solving problems selected from the following topics: optics, lasers and vision; basic electronics; energy generation, heat and thermal conductivity; surface tension and fluid flow. Related biological examples will also be discussed. *Exclusion:* PHY210Y. *Prerequisite:* PHY110Y/118Y/135Y/140Y, MAT(105F & 115S)/130Y/132Y/135Y/138Y/139Y.
- PHY231Y Electromagnetism (Formerly PHY230Y)** 2L, 1 $\frac{1}{2}$ P, 1T
 A course dealing with the following subject areas: Gauss's Law and electrostatics; DC circuits and instruments; AC circuits and resonance; magnetostatics and Faraday's Law; introduction to Maxwell's equations; electromagnetism in material media. Vector analysis will be introduced as required and a working knowledge of calculus and elementary differential equations is assumed. Laboratory experiments are performed which illustrate selected areas of the subject. *Prerequisite:* PHY(110Y/118Y with a minimum of 70% & P.I.)/135Y/140Y, MAT130Y/132Y/135Y/138Y/139Y. *Corequisite:* APM251Y/MAT239Y/MAT235Y.
- PHY254Y Waves and Statistical Physics** 2L, 1P, 1T
 The purpose of this course is to provide the student with a deeper knowledge of certain aspects of classical systems, partly in preparation for more advanced courses. The first part involves a second look at wave phenomena and vibrations, namely: coupled oscillators; normal modes; forced oscillations, resonance; wave propagation and wave packets; Fourier transforms and interference. The second part deals with statistical approaches to physical problems: the laws of thermodynamics and thermal interactions, entropy, many particle systems; kinetic theory of gases and the Maxwell distribution. *Prerequisite:* PHY(110Y/118Y minimum of 70% & P.I.)/135Y/140Y. *Corequisite:* MAT239Y, MAT214H/APM251Y.
- PHY256H Introductory Quantum Mechanics** 2L(S)
 This course constitutes a historical and conceptual view of the ideas of quantum mechanics. Topics include the indeterminacy of quantum mechanics; the uncertainty principle; wave-particle duality, and quantization of space and energy. Several examples of quantum mechanical systems will be discussed to illustrate the principle ideas including a treatment of a single particle in one dimension, the hydrogen atom, two-state systems and systems of identical particles. *Prerequisite:* PHY(110Y/118Y with a minimum of 70% & P.I.)/135Y/140Y, MAT130Y/132Y/135Y/138Y/139Y. *Corequisite:* MAT235Y/239Y.
- PHY325Y Quantum Physics Laboratory** 6P
 An introduction to modern physics through a set of selected experiments. Topics include: laser physics, atomic spectroscopy, microwave optics, x-ray crystallography, electron diffraction, absorption of gamma rays, cosmic ray showers, nuclear coincidence counting, gamma ray spectroscopy, Rutherford scattering, nuclear magnetic resonance, ferroelectric hysteresis. *Prerequisite:* PHY230Y. *Corequisite:* PHY256H (starting in 1979/80)
- PHY340Y Quantum Mechanics (Formerly PHY330Y)** 2L, 1T
 An introduction to the theory of quantized systems. Topics include: the postulates of quantum mechanics; Hermitian operators; wave mechanics; Schrodinger equation in three dimensions; angular momentum and the hydrogen atom; spin and Pauli matrices; identical particles; perturbation theory, both time-dependent and time-independent; scattering theory. Applications will be drawn from different areas of atomic and nuclear physics. *Exclusion:* PHY330Y. *Prerequisite:* PHY230Y, 256H (starting in 1979/80), MAT235Y/(MAT239Y, MAT214H/APM251Y). *Corequisite:* APM311H/351Y.

- PHY351H Advanced Classical Mechanics** 2L, 1T
An advanced course in classical mechanics of particles and systems of particles. Topics include: the two-body central force problem, Kepler's Laws, and nuclear scattering; rotating frames of reference, Euler's equations, and gyroscopic motion; Lagrangian and Hamiltonian mechanics, canonical transformations, and Hamilton-Jacobi theory. *Prerequisite:* PHY230Y, MAT235Y/239Y.
- PHY352Y Electromagnetic Fields and Waves** 2L, 1T
An advanced treatment of electromagnetism with emphasis on the structure and application of Maxwell's equations. Topics in electrostatics include multipole expansions and solutions to Laplace's equations. Propagation of electromagnetic radiation and evanescent waves in free space, dielectrics, conductors and plasmas, material boundaries, in waveguides and resonant cavities, and radiation by antennas and accelerated charges. *Prerequisite:* PHY230Y, 254Y, MAT239Y, MAT214H/APM251Y. *Corequisite:* MAT334H, APM311H/351Y.
- PHY354H Macroscopic Physics** 2L, 1T
A treatment of physical concepts and mathematical techniques in the study of macroscopic systems. Topics include fluid mechanics; viscosity; surface tension; plasma physics; wave propagation in continuous media; stress-strain and Navier-Stokes equation; equations of state for a simple fluid. *Prerequisite:* PHY230Y, 254Y, MAT239Y, MAT214H/APM251Y. *Corequisite:* MAT334H, APM311H/351Y.
- PHY425Y Advanced Quantum Physics Laboratory** 6P
A continuation of PHY325Y at a more advance level. Experimental topics include: light scattering, acousto-optics, magneto-optics, nuclear magnetic relaxation, paramagnetic resonance, surface physics. Students may also have the opportunity to participate in selected research activities. *Prerequisite:* PHY325Y, 340Y/330Y.
- PHY453H Nuclear Physics** 2L(F)
A study of the physics of the atomic nucleus. The properties of the nuclei, binding energy and mass formula, static moments, radiative decay and electromagnetic transitions, fission and fusion as well as nuclear force and nuclear interaction are discussed and nuclear models are introduced to explain some of the phenomenology. *Prerequisite:* PHY340Y/330Y, 352Y.
- PHY458H Quantum Optics and Laser Physics (Formerly PHY456H)** 2L(S)
Introduction to laser physics and modern optics. The course centres around developing an understanding of the laser principle including a discussion of stimulated emission, threshold conditions and resonator configurations. Various types of lasers will be reviewed from low power tunable lasers to high power short pulse lasers. Nonlinear optical phenomena such as frequency doubling of lasers and parametric mixing will be treated as well. The application of lasers and nonlinear optics to optical communications, fusion energy, holography, etc. will be surveyed. *Prerequisite:* PHY330Y/340Y, 352Y, APM311H/APM351Y.
- PHY470Y Introduction to Research in Physics**
An experimental or theoretical research problem under the supervision of a member of the Physics staff. By special arrangement may be carried on during the Summer before the student enters his final year. *Prerequisite:* Permission of Physics Faculty Advisor.
- PHY471Y Supervised Readings**
A programme of individual study chosen by the student with the advice of, and carried out under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest, or to explore interdisciplinary fields not available in the regular syllabus. *Prerequisite:* Permission of Physics Faculty Advisor.

POLITICAL SCIENCE

Faculty Advisor: Professor J. Barros

Political science is the study of politics and government. In general, politics are the ways in which the decisions are made about who is to rule in a society and what laws and policies are to prevail within its physical boundaries, while government is the process by which general rules are carried out. Part of political science is given over to describing specific processes or events - for example, a particular Canadian party leadership convention or such Canadian conventions generally - in somewhat the same way as a biologist would describe something in physical nature. But political science will go from these particularities to generalizations. One may describe political violence in contemporary Canada within the framework of an analysis of violence in countries similar to ours or, even more generally, in all societies both past and present. The study of politics at Erindale deals not only with how politics and government *do* proceed but how they *should* be carried on in the light of a long tradition of political philosophy. Thus students will be introduced in some courses to such questions as - what tests do we apply to determine whether one kind of government is better than another? who should rule? under what conditions, if any, have people a moral obligation to disobey government?

In spite of its fascination for many people, political science is a demanding study. This is so partly because its subject-matter is very complex. But more than that, we all bring to political science opinions about what is and what ought to be which we have accepted uncritically. Here are some questions to which most people would give ready answers:

- (1) are totalitarian nations more likely to have aggressive foreign policies than have democratic countries?
- (2) is it desirable that governments should not try to "legislate morality"?
- (3) are we more likely to control environmental pollution if we vest powers over such matters in larger rather than smaller units of government?

Although most of us would be willing to make snap judgments about such questions as these, each is very complex and our opinions are probably no better founded than are those of non-experts about, say, the law of relativity or the causes of the common cold. The study of political science will not eliminate political prejudices and is not directed toward eliminating political convictions but at a minimum it gives a person more ability than he has otherwise to give an account of the basis of his beliefs both about what the political world is and what it can and should be.

Specialist programme

10 courses are required in a programme of at least 20 courses:

8 must be of 200- or higher series level

One or two of POL100Y, 101Y, 104Y. Recommended: ECO100Y

At least two of: POL200Y, 320Y, 329Y

At least one full course from each of *four* of the *five* fields:

Comparative Politics (Developed Countries)

Comparative Politics (Developing Countries)

International Relations

Canadian Government and Public Administration

Political Behaviour

NOTE: COM323Y *Introduction to Public Administration*, can be considered as a POL course, POL322Y.

Minor programme

6 courses in a programme of at least 15 courses:

4 must be at the 200- or higher series level.

One of POL101Y, 200Y.

One course from each of *two* of the *five* fields listed in the Specialist programme.

Three additional courses in Political Science.

Specialist programme (Economics and Political Science)

7 Economics courses and 6 Political Science courses are required in a programme of at least 20 courses:

The following courses must be included in this programme:

Economics

One of ECO100Y, 102Y(G), 103Y(G).

One of ECO200Y, 210Y(G).

One of ECO202Y, 212Y(G)

ECO322Y

One of ECO101Y(G), 201Y, 203Y, 221Y, 222Y(G), ECO300Y(G), 302Y(G),

303Y(G), 305Y(G), 342Y(G)

Two additional Economics courses

Political Science

POL100Y,

POL214Y.

Two of POL101Y, 200Y, 320Y

Two additional courses in Political Science.

One course from two of the following five fields:

Comparative Politics (Developed Countries).

Comparative Politics (Developing Countries).

International Relations

Canadian Government and Public Administration

Political Behaviour

- | | | |
|---------|---|--------|
| POL100Y | Introduction to Canadian Politics
A study of the political process in Canada, including Canadian political culture, the formation of public opinion, political behaviour, political parties, the constitution, federalism, French Canada, federal-provincial financial relations, and the structure and functioning of political institutions, such as the cabinet, parliament, the judiciary, and the public service. | 2L, 1T |
| POL101Y | Introduction to Political Philosophy
The course is intended to introduce students to the most serious general theoretical statements about the nature of politics and the character of the just regime, the regime most appropriate for living the good life. It proceeds by careful study of some of the classic texts in the tradition and also hopes to give a training in how to read the great books dealing with political theory and moral problems. | 2L, 1T |
| POL200Y | Political Theory
The development of political thought from Plato to the controversies surrounding the French revolution. Among the theorists examined are Aristotle, Machiavelli, Hobbes, Locke and Rousseau. | 2L |
| POL203Y | Politics and Government of the United States
A comparative study of the development of American government and the main elements of the American political tradition; the structure and functioning of executives, legislatures, courts, bureaucracies, parties, and pressure groups in federal and state government; characteristic processes of American politics such as voting, bargaining, and regulation; and resultant patterns of public policy. | 2L |
| POL204Y | Politics and Government of the U.S.S.R.
(First part of course lectures, second part seminars)
The first part of the course deals with the historical development of the Soviet political system. The second part deals with a number of current issues: the leadership; party-state relations; public administration; political socialization; and interest groups. | 2L |

- POL208Y Introduction to International Relations** 2L
A study of International systems with emphasis on the sources, patterns and resolution of interstate conflict.
- POL209Y Public Policies in Canada** (Offered in alternate years) 2L
Public policies in Canada, the relationship between changing public policies and political development, and the institutional framework within which policies are formulated and implemented. National economic growth and development, regional disparities, social welfare, education, health, law and order. *Prerequisite:* POL100Y/P.I.
- POL212Y Political Mass Movements** 2L
Examines the values and inherent complexities of democratic society and its non-democratic alternatives, i.e. Communism, Fascism, Nazism.
- POL214Y The State and Economic Life** (Offered in alternate years) 2L
Considers the main premises of Marxism, liberalism and Democratic Socialism; the relationship between the Welfare State and the Rule of Law; economic planning and trade union activity in socialist and mixed economies; the role of interest groups in an administrative society; and the relation between political and economic structures. *Prerequisite:* POL100Y/101Y/ECO100Y.
- POL221H Political Participation** 2L
How and why do people get involved in politics? An examination of the behaviour of the ordinary citizen in Canada and the United States. Topics to be considered include: the development of mass democracy; the form and extension of popular participation; elections and voting behaviour; political protest movements.
- POL222H Elites and Political Leadership** 2L
An introduction to the study of political leadership and the exercise of political power. Topics will include the relationship of political leaders to the non-political elites in society, the cohesiveness and responsiveness of political leadership, the turnover of elite personnel, and the characteristics and processes of decision-making.
- POL300Y Topics in Comparative Politics** (Offered in alternate years) 2L
Comparative political analysis; classification of political systems; political culture, ideology, political elites, mass political socialization, the decision-making process. Illustrative material will be drawn from the Soviet Union, Canada, Great Britain, and the United States.
- POL308Y Urban Politics** 2L, 1/2T
This is a comparative course dealing with Urban Politics in Canada, Britain and the United States. It will deal with governmental structure, political issues, and the political process in urban areas. A major element of the course will be a research paper on some aspect of politics in the metropolitan Toronto area.
- POL311Y Canadian Political Parties** (Offered in alternate years) 2L
The role and functioning of Canadian political parties, Intr-party structures and processes, political culture and ideas, federal and provincial party systems, elections and voting. *Prerequisite:* POL100Y/P.I.
- POL314Y Public Opinion and Voting** 2L
An examination of the nature of political attitudes and opinions, the processes by which they are acquired, their use in describing political culture, and the role of opinions and attitudes as explanations of individuals' voting choices. Research on Canadian politics will be discussed in comparison with studies in other countries.
- POL316Y Contemporary Canadian Federalism** 2L
Constitutional, political, administrative and financial aspects of federal-provincial relations, regionalism and cultural dualism. *Prerequisite:* POL100Y/P.I.

- POL320Y Modern Political Thought** 2L
This course examines the development of political thought in the period beginning after the French Revolution and continuing through the nineteenth century, with special attention to the implications of this development for political thought in the twentieth century. Both democratic and anti-democratic tendencies are considered. *Prerequisite:* POL101Y/200Y.
- POL322Y Introduction to Public Administration** 2L
An introduction to the literature of public administration and to some of the main issues of the present and recent past in Canada (and to a limited extent in Britain and other countries). In other countries primary emphasis will be on policies or features that have influenced Canadian practice. *Exclusion:* COM441H(G), COM442H(G). *Prerequisite:* POL100Y/ COM100Y/COM102Y(1975-76).
- POL331H Ontario Government and Politics (Formerly POL317H)** 2L
Political structures and processes in Ontario; Cabinet government; the interaction of Cabinet, Legislature and public service; political parties and the party system; provincial-municipal relations. *Prerequisite:* POL100Y/P.I.
- POL323Y Topics in Canadian Politics** 2L
A seminar meeting weekly in two-hour sessions. The object is to understand how, or to what extent, the Canadian political system responds to demands made upon it on various issues or in different policy-areas. The selection of topics is arrived at in the seminar. Students will be responsible for completing two term papers, one relating to a political structure or process, the other to development of policy in a particular area. Sessions will be devoted to reviewing and analyzing material related to course topics and to reports on work in progress or completed. *Prerequisite:* POL100Y or equivalent by permission of instructor.
- POL328Y International Organization (Offered in alternate years)** 2L
A weekly two-hour lecture concerned with the development, structures, and functions of international organizations. The emphasis is on the political impact of international organizations and international law in international relations. Most attention will be focused on the two universal, political organizations, the United Nations and its forerunner, the League of Nations. Other international organizations will also be considered.
- POL329Y Marxism** 2L
A survey of Marxist political thought dealing with the works of Marx; the German Social Democrats; Lenin, Trotsky and the Russian revolution; Maoism, and the problems of modern Communism. *Exclusion:* SOC408Y(G). *Prerequisite:* A course in political theory or philosophy.
- POL340Y International Law (Offered in alternate years)** 2L
International law as an instrument of conflict resolution. Recognition, sovereign immunity, subjects of international law, and jurisdiction. *Prerequisite:* POL208Y.
- POL413Y Provincial and Local Government** 2L
The extent to which provincial and local governments in Canada are conducive to such basic political values as liberty, participation, and efficiency. Structure, processes and policy; provincial and local experience with such adaptive mechanisms as cabinet and departmental reform, political and administrative centralization and decentralization, and regional government. Adaptive strategies as well as mechanisms.
- POL440Y Undergraduate Thesis**
An independent research course to be undertaken by students specializing in Political Science. *Prerequisite:* Permission of Instructor and Discipline Representative.
- POL441Y Undergraduate Reading Course**
A reading course in which the written component will be agreed upon between the student and instructor.

PSYCHOLOGY

Faculty Advisors: Professors R. Abramovitch and A. Fleming

Psychology is the science which examines the structure and organization of behaviour in animals and man. It is concerned with the means by which behaviour is acquired and explores the mechanisms of adaptation to the social and physical environment. Emphasis is directed toward cognitive, social, physiological, genetic, and other factors which determine or affect behaviour. Among the topics covered by psychology courses are developmental changes in behaviour, learning, the structure and organization of the senses, modes of perceiving and responding, the environment and genetic events which shape behaviour, the origins and implications of drives, motives, conflicts, and emotion, and the wide variety of individual and species differences which are produced by differences in genetic endowment, physiology, and past experience.

Because of the demands of science for rigor and objectivity, stress is given to the techniques by which behaviour is studied. Because psychology is the science of the behaviour of all organisms, the discussion of animal behaviour constitutes an important part of many psychology courses. An intensive examination of experimental findings is paramount in all psychology courses.

Students who are interested in psychology as a career must be prepared for several years of graduate study. Persons who hold a Ph.D. in psychology find employment in universities, research institutes, mental hospitals and clinics, government agencies, and large corporations. A few work as self-employed consultants or therapists. The B.Sc. with a concentration in psychology is not in itself a professional qualification. People holding bachelor's degrees in psychology typically find employment in a wide variety of business, technical, educational, or social-service areas. However, further formal or on-the-job training is usually required. Nevertheless, undergraduate courses in psychology may be valuable to students planning various professional careers (e.g. in medicine, law, nursing, education, etc.).

Specialist programme

10 $\frac{1}{2}$ (10 for students entering before 1978-79) full courses in Psychology or their equivalent are required. All candidates for specialization must take PSY100Y, 201H, 202H, and 260H (PSY260H is not required for students entering before 1978-79) as well as one course from each category as listed in I.2. In addition, the remaining eight full courses in Psychology must satisfy the distribution requirements listed below in section II.3 and III.1 and the laboratory requirement in section III.2. The student interested in specializing in Psychology should take into account these distribution requirements as well as course prerequisites in planning his remaining eight courses. It should be noted that a single course may not be used to satisfy more than one distribution requirement.

- I.1) PSY100Y
- 2) One of ANT100Y/BIO100Y/SOC101Y/PHL100Y/MAT124H/132Y/204H
- II.1) PSY201H, 202H
- 2) PSY260H (for students entering 1978-79 or later)
- 3) One course, full or half, from each category:
 - a) Biological Bases of Behaviour. PSY251H/290Y
 - b) Developmental and Social Processes. PSY210Y/220Y/230H
 - c) Cognitive Processes. PSY270Y/280H
- III.1) One course, full or half, from each category:
 - a) Biological bases of behaviour. PSY350H/352H/354H/390H/392H/393H
 - b) Developmental and Social Processes. PSY311H/314H/315H/316H/317H/321H/323H/324H/332H/340Y/341H
 - c) Cognitive Processes. PSY314H/315H/373H/374H/375H/393H
- 2) One laboratory course. PSY319H/329H/379H/389H/399H
- 3) Sufficient additional course in Psychology to meet the requirement of 10 $\frac{1}{2}$ (10 for students entering before 1978-79) full courses in Psychology. At least five must be at a level of 300 or 400.

Courses at 300 and 400 level which satisfy the requirements of III.1 and III.2 can count toward the requirement of at least five full courses at level 300 and 400. Psychology courses which meet the requirements in I and II can be counted toward the total requirement of 10 $\frac{1}{2}$ full courses in Psychology.

Requirements of II.2 and II.3 are recommended in second year. Specialist programme should be reviewed with the Faculty Advisors.

Minor programme

6 full courses or the equivalent number of half courses are required for a minor in psychology. PSY100Y must be one of these six courses. Students must satisfy sections II.2 and II.3 of the specialist programme. Courses which satisfy sections II.2 and II.3 can be counted toward the requirement of six full courses. At least two of these six courses must be at level 300.

Specialist programme (Interdisciplinary programme in Animal Behaviour)

BIO251Y, PSY251H

Either PSY201H and PSY202H or BIO360H and BIO361H

Either PSY260H or PSY290Y

BIO322H and BIO323H

BIO340Y

Either BIO321Y or PSY390H and PSY399H (Note prerequisites for these courses)

One of the following: PSY350H, PSY352H, PSY354H

Either PSY400Y or BIO480H and BIO481H

Other Biology and Psychology courses of direct interest to students interested in Animal Behaviour:

BIO230Y, 235Y

BIO324Y, 351Y

BIO422H, 424H, 431H, 440H, 442H

PSY280H

PSY323H, 389H, 393H, 375H

RENUMBERING OF COURSES IN PSYCHOLOGY

In 1979-80 almost all courses in Psychology will be renumbered. A chart listing course titles with their old and new numbers follows. Numbers assigned to courses above the 100 level will be based on the following classification:

01 - 09	Research, Individual Projects, Analysis of Data
10 - 19	Developmental
20 - 29	Social
30 - 39	Personality and Measurement
40 - 49	Abnormal
50 - 59	Animal Behaviour
60 - 69	Learning
70 - 79	Cognition
80 - 89	Perception
90 - 99	Physiological

Former No.	Course Title	New No.
PSY 100Y	Introductory Psychology	No change
PSY 200H	Statistics and Research Design I	
	<i>Renamed</i> Research Design and Analysis in Psychology I	PSY 201H
PSY 201H	Statistics and Research Design II	
	<i>Renamed</i> Research Design and Analysis in Psychology II	PSY 202H
PSY 203Y	Introduction to Social Psychology	PSY 220Y
PSY 204H	Personality	
	<i>Renamed</i> Introduction to Personality	PSY 230H
PSY 207Y	Cognitive Psychology	
	<i>Renamed</i> Introduction to Cognitive Psychology	PSY 270Y
PSY 208H	Sensory and Perceptual Processes	
	<i>Renamed</i> Introduction to Sensory and Perceptual Process	PSY280H

PSY 209Y	Physiological Psychology <i>Renamed</i> Introduction to Physiological Psychology	PSY 290Y
PSY 213H	Comparative Psychology	PSY 251H
PSY 216H	Experimental Design and Theory	PSY 203H
PSY 218H	Classical and Instrumental Conditioning <i>Renamed</i> Introduction to Learning	PSY 260H
PSY 268Y	Developmental Psychology: Childhood <i>Renamed</i> Introduction to Development	PSY 210Y
PSY 305H	Advanced Personality	PSY 332H
PSY 306H	Introductory Psycholinguistics	PSY 374H
PSY 310H	Individual Project	PSY 303H
PSY 311H	Individual Project	PSY 304H
PSY 314H	Human Memory and Learning	PSY 373H
PSY 317H	Attention	PSY 375H
PSY 326Y	Abnormal Psychology	PSY 340Y
PSY 327H	Developmental Psychology: Psychopathologies of Childhood <i>Renamed</i> Psychopathologies of Childhood	PSY 341H
PSY 351H	Laboratory in Human Memory and Learning <i>Renamed</i> Human Memory and Learning Laboratory	PSY 379H
PSY 353H	Laboratory in Sensory and Perceptual Processes <i>Renamed</i> Sensory and Perceptual Processes Laboratory	PSY 389H
PSY 355H	Laboratory in Psychobiology <i>Renamed</i> Psychobiology Laboratory	PSY 399H
PSY 356H	Laboratory in Social Psychology <i>Renamed</i> Social Psychology Laboratory	PSY 329H
PSY 357H	Laboratory in Developmental Psychology <i>Renamed</i> Developmental Psychology Laboratory	PSY 319H
PSY 362H	Animal Behaviour and Ethology	PSY 350H
PSY 363H	Developmental Psychology: Early Experience	Discontinued
PSY 365H	Social Psychology: Interpersonal Behaviour	PSY 321H
PSY 367H	Nonverbal Communication	PSY 323H
PSY 369H	Developmental Psychology: Adolescence	Discontinued
PSY 371H	Advanced Physiological Psychology <i>Renamed</i> Advanced Topics in Physiological Psychology	PSY 390H
PSY 375H	Cognitive Neurology	PSY 393H
PSY 376H	Developmental Psychology: Perceptual Development <i>Renamed</i> Perceptual Development	PSY 314H
PSY 378H	Developmental Psychology: Cognitive Development <i>Renamed</i> Cognitive Development	PSY 315H
PSY 380H	Developmental Psychology: Early Social Behaviour <i>Renamed</i> Early Social Behaviour	PSY 316H
PSY 383H	Developmental Psychology: Social Development <i>Renamed</i> Social Development	PSY 311H
PSY 385H	Mammalian Social Behaviour	PSY 352H
PSY 386H	Psychobiology of Sex Differences	PSY 392H
PSY 387H	Aggression	PSY 324H
PSY 390H	Comparative Social Behaviour	PSY 354H
PSY 400Y	Undergraduate Research Thesis <i>Renamed</i> Thesis	No change
PSY 406Y	Applications and General Issues in Psychology	PSY 402Y
PSY 410H	Specific Topics in Developmental Psychology <i>Renamed</i> Special Topics in Developmental Psychology	No change
PSY 412H	Individual Project	PSY 403H
PSY 413H	Individual Project	PSY 404H
New course	Psychometrics	PSY 330H
New course	Psychological Tests	PSY 331H
New course	Motivation and Emotion	PSY 394H
New course	Special Topics in Abnormal Psychology	PSY 440H
New course	Sociobiology	JPB 359Y

- PSY100Y Introductory Psychology** 3L
Psychology is the science of behaviour; and this course seeks to acquaint the student with the scientific method as it is applied in attempting to understand both human and animal behaviour. This course is a prerequisite for all other psychology courses, except PSY201H, 202H.
- PSY201H Research Design and Analysis in Psychology I (Formerly PSY200H)** 2L, 2T
(Same as STA202H and GGR202H)
Basic descriptive and inferential statistics. *Exclusion:* Any concurrent or previous Statistics course.
- PSY202H Research Design and Analysis in Psychology II (Formerly PSY201H)** 3L
Concerned with the design of experiments and the more advanced methods of statistical analysis, including complex analysis of variance. *Exclusion:* Any concurrent or previous statistics course except PSY201H. *Prerequisite:* PSY201H.
- PSY203H Experimental Design and Theory (Formerly PSY216H)** 3L
Problems involved in experimental design and the interpretation of experimental findings; the logical structure in psychological theories. Practice in the critical evaluation of experimental designs and the correction of experimental errors. *Prerequisite:* PSY100Y.
- PSY210Y Introduction to Development (Formerly PSY268Y)** 3L
A survey of the scientific study of the behaviour of children. Topics include the historical and philosophical backgrounds, methods and theories, and research on particular aspects of behavioural development. *Prerequisite:* PSY100Y.
- PSY220Y Introduction to Social Psychology (Formerly PSY203Y)** 3L
A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes. *Prerequisite:* PSY100Y.
- PSY230H Introduction to Personality (Formerly PSY204H)** 3L
Emphasis on empirical research in such areas as authoritarianism, need for achievement, manifest anxiety, self-concept. *Prerequisite:* PSY100Y.
- PSY251H Comparative Psychology (Formerly PSY213H)** 2L
The innate and learned social responses of a variety of animals will be studied with emphasis on both the similarities and differences in species-specific modes of responding. *Prerequisite:* PSY100Y.
- PSY260H Introduction to Learning (Formerly PSY218H)** 3L
A survey of empirical findings and theoretical interpretations relevant to the scientific study of the phenomena of learning and memory in human and animal subjects. *Prerequisite:* PSY100Y.
- PSY270Y Introduction to Cognitive Psychology (Formerly PSY207Y)** 2L
A systematic investigation of thought processes and mechanisms underlying them. Topics include concept learning, problem solving, language, attention, and information-processing. *Prerequisite:* PSY100Y.
- PSY280H Introduction to Sensory and Perceptual Processes (Formerly PSY208H)** 3L
Examination of theoretical and experimental efforts aimed at understanding sensory and perceptual function. Emphasis will be placed on vision research at both the physiological and behavioural levels. *Exclusion:* PSY380H. *Prerequisite:* PSY100Y.
- PSY290Y Introduction to Physiological Psychology (Formerly PSY209Y)** 3L
An introduction to the study of the neural and endocrinological bases of behaviour, including aspects of normal and abnormal neural and cognitive development. *Prerequisite:* PSY100Y.

- PSY303H** **Individual Project** (Formerly PSY310H) 3L
(*) Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. *Prerequisite:* PSY201H, 202H, a laboratory course and P.I.
- PSY304H** **Individual Project** (Formerly PSY311H) 3L
(*) Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. *Prerequisite:* PSY201H, 202H, a laboratory course and P.I.
- PSY311H** **Social Development** (Formerly PSY383H) 3L
A survey of contemporary research and theory in various aspects of social development such as moral development, sex-role development, aggression, pro-social behaviour. *Prerequisite:* PSY210Y.
- PSY314H** **Perceptual Development** (Formerly PSY376H) 3L
A survey of current research in auditory and visual abilities in infancy and *Exclusion:* PSY312H. *Prerequisite:* PSY210Y/280H.
- PSY315H** **Cognitive Development** (Formerly PSY378H) 3L
A survey of contemporary research and theory in the development of language, thinking and intelligence, including a consideration of Piaget's views. *Exclusion:* PSY312H. *Prerequisite:* PSY210Y/270Y.
- PSY316H** **Early Social Behaviour** (Formerly PSY380H) 3S
An examination of research on topics such as attachment, dependency, and peer relations in infants and young children. *Prerequisite:* PSY210Y.
- PSY319H** **Developmental Psychology Laboratory** (Formerly PSY357H) 3P
Readings, laboratory exercises and research projects designed to acquaint the student with methodology appropriate for infant and child study. *Prerequisite:* PSY201H, 202H, 210H.
- PSY321H** **Interpersonal Behaviour** (Formerly PSY365H) 3S
Detailed analysis of some of the determinants and consequences of various forms of social interaction; conformity and social influence, social comparison, affiliation. *Prerequisite:* PSY220Y.
- PSY323H** **Nonverbal Communication** (Formerly PSY367H) 3L
A survey of research and theory concentrating on nonverbal communication as a form of social organization. Topics such as facial expressions, gestures, proxemics will be discussed. The main concentration will be on human adults, but research on children and non-human primates will also be reviewed. *Prerequisite:* PSY100Y/CMM100Y.
- PSY324H** **Aggression** (Formerly PSY387H) 2L
Examination of the situational determinants of human aggressive behaviour. Some comparative literature will be related to a global view of the problem. Topics include: definition of aggression, aggression as arousal, alcohol and violence, personal space, anger and cognitive labelling, and deindividuation. *Prerequisite:* PSY100Y. *Recommended preparation:* PSY251H.
- PSY329H** **Social Psychology Laboratory** (Formerly PSY356H) 3P
Independent research projects in the general areas of social psychology or personality. Each project will include the design of an experiment, data collection, and a written report. *Prerequisite:* PSY201H, 202H, 220Y.

- PSY330H Psychometrics** 3L
Test construction and standardization will be examined with emphasis on theory and execution of standard and special correlational techniques (including Pearson and Spearman methods; partial and multiple correlation; biserial, point-biserial, tetrachoric and phi coefficients). Theoretical and practical implications of the various forms of reliability and validity testing will also be explored in the context of standardization, prediction and normative scaling. *Prerequisite:* PSY201H, 202H. (or an equivalent full course in statistics), PSY230H.
- PSY331H Psychological Tests** 3L
Critical analysis of objective and projective tests of intelligence, personality, interests and aptitudes will be undertaken with considerable emphasis given to reliability and validity research associated with these instruments. *Prerequisite:* PSY330H.
- PSY332H Advanced Personality (Formerly PSY305H)** 3L
Detailed discussion of the extension of major theories of personality to treatment (therapy) for personality disorders, and research growing out of the theories. *Prerequisite:* PSY230H.
- PSY340Y Abnormal Psychology (Formerly PSY326Y)** 3L
A survey of theories and research on abnormal behaviour and psychological treatment with special emphasis on social learning theory and behaviour modification techniques. *Exclusion:* PSY240H. *Prerequisite:* PSY230H/260H (beginning 1980-81, 260H only).
- PSY341H Psychopathologies of Childhood (Formerly PSY327H)** 2L
Considers concepts of normal, abnormal and delayed development. Schemes of classification and diagnoses, approaches to identification of etiologies, and contemporary treatment methods are critically evaluated. The emphasis is on controlled experimentation as a primary source of knowledge about psychopathology and treatment. *Prerequisite:* PSY210Y/340Y.
- PSY350H Animal Behaviour and Ethology (Formerly PSY362H)** 2L
A study of the social behaviour of organisms (human and non-human) as observed and measured in both laboratory and field settings. *Prerequisite:* PSY251H.
- PSY352H Mammalian Social Behaviour (Formerly PSY385H)** 2S
A seminar for the preparation and discussion of papers dealing with such mammalian social phenomena as co-operation, social facilitation, agonistic behaviour, territoriality, competition, altruism, communication, dominance, imitation, attachment and population regulation. *Prerequisite:* PSY251H.
- PSY354H Comparative Social Behaviour (Formerly PSY390H)** 3L
Types of social organization and interaction in various animal groups will be discussed. Emphasis will be placed upon the evolution, ontogeny and biological functions of social behaviour in animal groups which possess complex social systems. *Prerequisite:* PSY251H.
- JPB359Y Sociobiology: Biological Bases of Social Behaviour** 2L, 3P
Concepts from ethology, ecology, and population biology will be introduced and applied to the understanding of the evolution and biological function of social behaviour. Topics to be discussed will include altruism, aggression, social spacing, dominance, sex, parental investment and care, social symbioses, and the evolution of life histories. Emphasis will be placed on the complex social systems of insects and mammals. Laboratory sessions will involve field observations, laboratory demonstrations, and the preparation of individual projects. *Prerequisite:* BIO100Y and PSY100Y. *Corequisite:* BIO322H or PSY350H.
- PSY373H Human Memory and Learning (Formerly PSY314H)** 3L
Facts, theories, and methods in the study of human learning. Major emphasis will be on recent trends in the study of verbal learning, memory and verbal behaviour. *Exclusion:* PSY371H, 372H. *Prerequisite:* PSY270Y.

- PSY374H Introductory Psycholinguistics** (Formerly PSY306H) 2L
A contemporary approach to the psychological study of language and speech, highlighting the biological and cognitive aspects of language acquisition and use. *Exclusion: JLP324H. Prerequisite: PSY270Y.*
- PSY375H Attention** (Formerly PSY317H) 2L
The course will examine the role of attention in behavioural control. Attention will be discussed as a mechanism that permits consistent, coordinated behavior despite stimulus overload or stimulus deprivation. The nature of attention itself will be developed through the discussion of specific topics, and the resulting concepts will be applied to issues in theories of memory, problem solving, and motor performance. *Prerequisite: PSY270Y.*
- PSY379H Human Memory and Learning Laboratory** (Formerly PSY351H) 3P
Experiments will be carried out to illustrate recent theoretical and experimental issues. Students use themselves (and other students) as subjects and are encouraged to design, carry out and write up experiments in this area. *Prerequisite: PSY201H, 202H, 270Y.*
- PSY389H Sensory and Perceptual Processes Laboratory** (Formerly PSY353H) 3P
The fundamentals of sensory and perceptual processes. Students conduct weekly laboratory experiments, using each other as subjects. *Prerequisite: PSY201H, 202H, 280H.*
- PSY390H Advanced Topics in Physiological Psychology** (Formerly PSY371H) 2L
Current areas of research in physiological psychology will be explored in detail. These areas will include the following: the hormonal bases of human and animal behaviour, the development of motivational systems and perceptual capacities, the physiological bases of memory, language, and other higher cortical functions in man, and the neurochemical bases of sleep and emotion. *Prerequisite: PSY290Y.*
- PSY392H Psychobiology of Sex Differences** (Formerly PSY386H) 3L
Critical analysis of research indicating sex differences in behaviour and physiology in humans and other mammals. Discussion of sex differences in reproductive, agonistic and other social behaviours as well as cognitive, perceptual and motivational processes. Emphasis will be on the interaction of cultural and/or biological factors in the development of those functions. *Prerequisite: PSY210Y/251H/290Y.*
- PSY393H Cognitive Neurology** (Formerly PSY375H) 2S
Problems in cognitive psychology will be explored from the viewpoint of clinical neurology. Some sample topics: amnesia and models of memory; split-brain research; the temporal lobes and verbal and non-verbal memory; the role of the frontal lobes; perceptual asymmetries in normal people; models of brain function. *Prerequisite: PSY270/290Y.*
- PSY394H Motivation and Emotion** 2L
This course will examine models of emotion from an historical and theoretical perspective. Close attention will be paid to the role of cognitive-perceptual, autonomic and somatic variables particularly as they relate to the phenomenology of emotion and the motivation of behaviour. *Prerequisite: PSY100Y. Recommended preparation: PSY251H.*
- PSY399H Psychobiology Laboratory** (Formerly PSY355H) 3P
Supervised demonstration experiments designed to familiarise students with methods of collecting, analysing, and reporting data in ethological and physiological experiments employing animal subjects. Students will also learn how to handle selected species of animals. *Prerequisite: PSY201H, 202H, 290Y.*

- PSY400Y **Thesis** 3S
 Each student will conduct independent research and write a thesis under the supervision of staff member(s). Seminar meetings will be held weekly to discuss (a) general topics important to the conduct of research; (b) student research proposals; (c) thesis results. Admission decided on the basis of academic merit. *Prerequisite:* (PSY201H, PSY202H)/BIO360Y, a laboratory course in Psychology, satisfactory progress in the Specialist Programme in Psychology or Interdisciplinary Specialist Programme in Animal Behaviour.
- PSY402Y **Applications and General Issues in Psychology** (Formerly PSY406Y) 2S
 A seminar and practicum dealing with the philosophy, and application of selected topics in psychology. Particular emphasis is placed upon the application of psychological principles to college teaching. *Prerequisite:* P.I., for third and fourth year students with a good background in psychological course work.
- PSY403H **Individual Project** (Formerly PSY412H) 3S
 (*) Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. *Prerequisite:* PSY201H, 202H., a laboratory course and P.I.
- PSY404H **Individual Project** (Formerly PSY413H) 3S
 (*) Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. *Prerequisite:* PSY201H, 202H, a laboratory course and P.I.
- PSY410H **Special Topics in Developmental Psychology** (Topics change periodically) 3S
 A student-led seminar on selected topics in the current research literature. *Prerequisite:* PSY210Y, 3 of PSY 310-319 series courses, P.I.
- PSY440H **Special Topics in Abnormal Psychology** 3T
 Examination in depth of a limited topic within abnormal psychology. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. *Prerequisite:* PSY340Y, P.I.

*Relevant faculty members must be consulted during preceeding term. Students may take no more than the equivalent of four "project" or "thesis" half courses.

RELIGIOUS STUDIES

Faculty Advisors: Professors L.E. Schmidt and L.J. Elmer

The academic study of religion involves the examination of many forms of religious life, including the great religious traditions (Buddhism, Christianity, Islam, Judaism, Hinduism, etc.) using a variety of methods (historical, philosophical, social scientific). Definitions and theories of religion are integral parts of the subject matter of Religious Studies. The diversity which characterizes the Department is reflected in the variety of courses offered or crosslisted, and by the differences in the background and training of our faculty.

The study of religion offers useful preparation for participation in a religiously diverse society, and for a wide range of careers (eg. social work, law, teaching, leadership in religious organizations). Opportunity is provided for students interested in the graduate study of religion at the M.A. and Ph.D. levels at the University's Centre for Religious Studies. As with other programmes leading to the Bachelor of Arts degree, however, the study of religion is intrinsically valuable and satisfying and can be pursued for its own sake.

Specialist, minor and joint programmes are described in detail in the Department of Religious Studies' Handbook. These programmes may include a limited number of relevant courses offered by Colleges or by departments such as Anthropology, Classics, East Asian Studies, English, Fine Art, History, Middle East and Islamic Studies, Near Eastern Studies, Philosophy, Psychology and Sociology.

Enquiries: Faculty advisors (828-5275) or Department of Religious Studies, 110 Charles St. West. (978-2395)

Specialist programme

10 courses offered, or officially recognized by the Department, are required in a programme of at least 20 courses:

These courses must cover more than one major religious tradition (e.g. Buddhism, Christianity, Judaism), the various types of method (historical, philosophical, social scientific), and a concentration on one major tradition using one type of method. A statement of additional requirements and a description of five suggested programmes of specialization are available from the Department. These programmes are:

Christian Thought
Religion and Culture
Religious Ethics
Religious Studies and Philosophy
World Religions

Minor programme

7 courses are required in a programme of at least 15 courses:

chosen to acquaint the student with more than one major religious tradition and method, with a concentration on one tradition.

NOTE: Students should consult a faculty adviser annually and submit their course selections to the Department for approval.

Erindale College offers a Minor Programme in Christian Thought. Other Specialist and Minor Programmes may be begun at Erindale but must be completed with course offerings on the St. George campus.

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|---------|---|--------|
| REL100Y | World Religions: An Introduction
An introductory course exploring the following religious traditions: Judaism, Zoroastrianism, Christianity, Islam, Hinduism, Buddhism, Confucianism, Taoism and Shintoism. Readings (in translation) from the sacred scriptures of these religions. Comparison of their ideas, attitudes, beliefs, practices, rituals and ceremonies. | 2L, 1T |
| REL105Y | Contemporary Problems in Religious Ethics
An introduction to the analysis of ethical problems in the context of religious studies. Abortion; poverty; sex, marriage and the changing roles of men and women; genetic engineering; the ecological crisis. | 2L, 1T |
| REL203Y | Fundamental Theological Concepts in Imaginative Literature
The problems of doubt and faith, despair and hope, flesh and spirit, vice and virtue, sin and grace, suffering and freedom, mortality and immortality, in the works of selected imaginative writers. Critical analysis, in terms of classical theological categories, of selections from such authors as Dostoyevsky, Bernanos, Mauriac, Eliot and Camus. (All works to be read in English.) | 1L, 2T |
| REL207H | Religion and Identity in Canada
Personal and social identity as created and expressed through such Canadian religious groups as "mainline" religious traditions, evangelical sects, pentecostal-charismatic movements, ethnic churches, and the "new religions." Religious behaviour studied as the interplay between believing and belonging. <i>Recommended preparation:</i> REL105Y. | 2L, 1T |

- REL210H **Hope and the Human Condition** 2L, 1T
Twentieth century Christian responses to the judgment that man's "origin, his growth, his hopes and fears, his loves and beliefs are but the outcome of the accidental collocation of atoms" (Bertrand Russell). The significance of hope for personal, social and political life according to such thinkers as Marcel, Moltmann, Pannenberg, and Metz.
- REL212Y **Major Themes in Biblical Literature** 2L, 1T
Major religious themes running through biblical literature. Old and New Testament concepts of creation, election, covenant, salvation, divine law, prophecy, wisdom, justification, etc.
- REL230Y **The Roles of Religion in Human Development** (Offered in alternate years) 2L, 1T
The positive and negative roles which religion has played and continues to play in human development and in cultural progress. A general analysis of personhood and the need in authentic human living for self-transcendence. The phenomenon of faith; religion as wonder; religion as meaning; and religion as health.
- REL241Y **Introduction to the New Testament** (Offered in alternate years) 2L, 1T
An introduction to the types of literature in the New Testament (Gospels, Acts, Epistles, Apocalypse) and to the distinctive content of the literature as a whole. The history of texts and versions, the process of canonization of the literature, and the critical methods of scriptural study are examined.
- REL265Y **The Indian Religious Experience** (Offered in alternate years) 2L, 1T
A study of the wide variety of religious expression in the Indian tradition, concentrating chiefly on Hinduism and the impact of this tradition on Indian philosophy, art, literature, social structure and culture from the *Rig Vedic* age to the twentieth century.
- REL266Y **Three Desert Religions** (Offered in alternate years) 2L, 1T
Judaism, Christianity and Islam seen from two perspectives: as great historical and theological traditions in their own right, and also as three religions which share the continuity of a common cultural heritage and worldview.
- REL267Y **Religion in China** (Offered in alternate years) 2L, 1T
Development of Chinese religious ideas and practices from the Shang dynasty to modern times, emphasizing how Chinese religious values are diffused throughout its culture and history. Detailed study of folk religion, Confucianism, Taoism, Buddhism, and the implications of Maoism. The resources of the Royal Ontario Museum are utilized.
- REL361Y **World Religions: A Comparative Study** 2L, 1T
Selected themes and issues in World Religions; a review of various approaches to World Religions developed during the last century; examples of similarity and diversity in religious concepts East and West. A comparison of Buddhism and Christianity. *Recommended preparation:* REL100Y.
- REL362H **Teilhard de Chardin: Evolution and Modern Man** (Offered in alternate years) 2L
The thought and spirit of Teilhard de Chardin as a Christian interpretation of evolutionary theory: concepts of personalizing universe, love as energy, mystery of evil, building the earth, hope. The relevance of Teilhard de Chardin for twentieth century man. *Exclusion:* REL362Y.
- REL363H **Evil and Sin - a Christian Interpretation** (Offered in alternate years) 2L
The biblical and theological foundations for a Christian interpretation of evil and sin. Evil as problem and as mystery - lines of solution and approaches to the mystery. Old misunderstandings and new insights into a theology of sin. Sin as act and as condition (sinfulness). The role of evil and sin in the process of man's religious development.

- REL375Y Communications and Religious Consciousness** 2L, 1T
The development of religious identity both from a psychological and a sociological point of view, and the pervasive effects of the communications media on this development. The function of mythic acts, clothes, cosmetics, dance, music, academic structures, novels, movies, newspapers, as well as more personal forms of communication (diary, autobiography, letters, etc.) in the creation of religious consciousness.
- REL490Y Individual Studies**
Student-initiated projects of reading and research, primarily intended for specialists and supervised by members of the Department. After obtaining a supervisor, a student must apply to the Department.
- REL491H Individual Studies**
Student-initiated projects of readings and research, primarily intended for specialists and supervised by members of the Department. After obtaining a supervisor, a student must apply to the Department.

SLAVIC LANGUAGES AND LITERATURES

Faculty Advisor: Professor N.N. Shneidman

The Slavic literary and cultural tradition represents one of the great achievements of mankind. The Department offers a range of courses in Russian language and literature to provide access to that tradition. These courses are suitable for inclusion in a wide variety of programmes of study irrespective of whether the student has studied Russian in Grade 13 or not. Some students may specialize intensively in Russian language and literature. Others may simply wish to gain a working knowledge of Russian to aid their reading of important material in another field, as for example, science or social science. Language study in the Department emphasizes skills in using literary materials, and it also employs oral methods, combining small instructional groups with laboratory and conversational practice.

Russian literature has always been concerned with meaningful and universal human problems and has looked at them from a fresh and unique point of view. Giants of world literature such as Pushkin, Turgenev, Tolstoy and Dostoevsky, explore these problems in their nineteenth century novels, plays and poetry. The continuation and development of this same tradition under new Soviet conditions in the twentieth century by writers such as the Nobel Prize Winners, Sholokhov, Pasternak and Solzhenitsyn, makes another fascinating area of study.

Specialist programme (Russian Language and Literature)

10 SLA courses are required in a programme of at least 20 courses:

SLA100Y/220Y. Recommended SLA110Y

SLA210Y, 220Y

SLA310Y, 320Y. Recommended: SLA314H, 317H, 341Y, 363H, 367H.

Students who have taken Grade 13 Russian are admitted to SLA220Y.

Erindale College offers a full range of courses required for specialization in Russian Language and Literature for the first three years of study.

Minor programme (Russian Languages and Literature)

7 SLA courses are required in a programme of at least 15 courses.

Specialist Programme: (Slavic Languages and Literatures)

Consult Department of Slavic Languages and Literatures

- SLA100Y **Elementary Russian** 5T
An introductory course in Modern Russian. Practice in aural comprehension, speaking, reading, and writing. Language laboratory practice.
- SLA110Y **Introduction to Slavic Culture and Literature** (In English) 1L, 1T
The historical development of Slavic culture, languages, and literatures from the beginning to the present. Readings (in translation) selected from all periods of Russian, Ukrainian, Polish, and other Slavic literatures, including works by Dostoevsky, Solzhenitsyn, Shevchenko, Mickiewicz.
- SLA210Y **Nineteenth Century Russian Literature** (In English) 2L, 1T
A study of the major novels of the nineteenth century with emphasis on the problem of the individual and society. Readings (in translation) of the works of Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, and others.
- SLA211Y **Masterworks of Russian Literature** 1L, 1T
Major fictional and dramatic works by nineteenth- and twentieth-century Russian authors, including Pushkin, Gogol, Turgenev, Tolstoy, Dostoevsky, Gorky, Mayakovsky, Pasternak, Solzhenitsyn, Nabokov. An examination of the stylistic range from realism to the grotesque and psychological, political and philosophical concerns of the writers. Readings in English. *Exclusion:* SLA210Y, 310Y.
- SLA220Y **Intermediate Russian** 3T, 1P
Continued study of Russian with language laboratory practice, oral practice, composition and conversation based on reading of literary texts and topics of current interest. *Prerequisite:* SLA100Y or Grade 13 Russian.
- SLA310Y **Twentieth Century Russian Literature** (In English) 1L, 1T
A survey of Russian literature of this century with emphasis on the Soviet period. A study of modernism; the impact of the 1917 Revolution on literature; the evolution of Soviet literary policy; contemporary problems of artistic freedom. Readings (in translation) will include works by Gorky, Bunin, Babel, Sholokhov, Pasternak, Solzhenitsyn, and others.
- SLA314H **Dostoevsky** 2S
Crime and Punishment, The Brothers Karamazov, plus other novels and shorter works. Dostoevsky's political, psychological and religious ideas as they shape and are shaped by his literary art. Readings in English.
- SLA317H **Tolstoy** 2S
War and Peace, Anna Karenina, plus other important shorter works. Tolstoy's political, psychological and religious ideas as they shape and are shaped by his literary art. Readings in English.
- SLA320Y **Advanced Russian** 3T, 1P
Continued study of grammar, composition, and translation. Oral practice and stylistic analysis of selected texts. Extensive reading programme. *Prerequisite:* SLA220Y.
- SLA341Y **Russian Drama** (Offered in alternate years) 1L, 1T
An historical survey of the Russian theatre: origins, development of genres, relations with prose and poetry, impact on modern Western drama. Plays from the classical (Fonvizin, Griboedov), Romantic (Pushkin, Gogol), realistic (Ostrovsky), modernistic (Chekhov, Blok, Mayakovsky), and Soviet repertory. Readings in English.
- SLA363H **Solzhenitsyn** 1L, 1T
Solzhenitsyn's critique of contemporary Soviet reality and his interest in moral problems of a more universal nature. His literary craftsmanship. The treatment of Solzhenitsyn's works by Soviet ideologists and Western literary critics. Readings in English.
- SLA367H **Chekhov** 1L, 1T
Major fiction and plays: literary and historical contexts; critical reception; influence on Russian and Western literature: close analysis of texts. Readings in English.

SOCIOLOGY

Faculty Advisor: Professor W. Kalbach

One of the essential questions sociologists have had to confront concerns the extent to which the individual is determined by society and to what extent he is a determinant of society. In examining such questions, sociologists use the methods of science as well as those of the humanistic disciplines. The answers are not self-evident and traditional explanations often prove unreliable, both as a source of understanding and as a guide to action. Sociology provides another approach for assessing existing knowledge and developing more valid theories of social behaviour and the nature of society.

Students in other fields may gain from the study of sociology a clearer understanding of the human and social condition as it relates to their chosen profession and to contemporary institutions in general. There are opportunities in Canada and abroad for professional sociologists in teaching, research, administrative and consulting positions. A professional career in sociology usually requires advanced training beyond the undergraduate level.

There is no requirement that a student entering the programme in Sociology must focus upon a particular area of interest. However, the Department is prepared to recommend in consultation with the student, programmes which emphasize Canadian society, urban sociology, interpersonal relations, or some other combination of courses. Students entering this programme should enrol with the Department of Sociology before the end of the first term in their second and subsequent year; and should seek advice from instructors in the Department while working out their programmes.

Specialist programme (Sociology)

9 SOC courses are required in a programme of at least 20 courses:

SOC200Y/201Y - *Strongly recommended* to be taken during the second year.

SOC313Y

Two 300- or 400-series Sociology courses

NOTE: Students are strongly encouraged to take one 400-series Sociology course in their fourth year. For SOC201Y, ECO220Y/GGR202H, GGR212H/STA202H, STA212H will be regarded as equivalent.

Minor programme (Sociology)

6 SOC courses are required in a programme of at least 15 courses:

SOC200Y/201Y

SOC313Y

Minor programme (Communications)

6 courses are required in a programme of at least 15 courses:

SOC101Y,

SOC152Y

SOC200Y/201Y

SOC313Y

Two of the following: SOC284Y, 309Y, 332Y, 333Y, 334Y

NOTE: Students entering the specialist and minor programme in Sociology should enrol with the Department of Sociology before the end of the first term in their second and subsequent year; and should seek advice from instructors in the Department while working out their programmes. A Specialist/Minor Registration Form must be completed and submitted before the end of classes in the final year if students wish their Specialist or Minor status to be indicated on their transcripts.

SOC101Y **Introduction to Sociology**

2L, 1T

An introduction to the basic concepts, principles, and methods of sociology as a discipline for the study of society.

- SOC152Y Introduction to Communication Theory and Research** (Formerly CMM100Y) 2L, 1T
(Formerly SOC110Y)
This course aims at presenting the major theories of verbal and nonverbal communication. The principal purpose is to familiarize the student with the various possibilities of analyzing communication from the point of view of psychology, sociology, philosophy, linguistics, drama, physics and religious studies. The course further aims to acquaint the student with the research methods most commonly used in designing experiments in communication.
- SOC200Y Introduction to Social Research** 2L, 1P
How social observations are used to develop and test sociological ideas. A variety of theoretical approaches and research techniques are critically examined to illustrate general principles of conceptualization, measurement, and explanation. *Prerequisite:* SOC101Y/P.I.
- SOC201Y Social Statistics** (Offered in alternate years) 2L, 1P
An introduction to data analysis which emphasizes understanding rather than mathematics, exploratory techniques (how to look for hypotheses); corresponding confirmatory techniques (how to test hypotheses). Basic analysis of variance, regression, chi-square; tables and graphs. *Exclusion:* Statistics courses. *Prerequisite:* SOC101Y.
- SOC202Y Structure of Interpersonal Relations** 2L, 1T
A study of patterned relationships, social roles, and social expectations that arise out of interaction among individuals. *Prerequisite:* SOC101Y/P.I.
- SOC205Y Urban Sociology** 2L, 1T
Examines the city both as a significant development in world civilization and a working mechanism guided by contemporary policies. Studies human behaviour in its multifaceted relations with the urban environment. *Prerequisite:* SOC101Y/P.I.
- SOC212Y Deviance and Control** 2L, 1T
A sociological analysis of deviant behaviour which examines theories of its genesis, social definition, maintenance, control, and social consequences. *Prerequisite:* SOC101Y/P.I.
- SOC214Y Sociology of the Family** 2L, 1T
Development of the contemporary Western family with special emphasis on the changing relations among its members. *Prerequisite:* SOC101Y/P.I.
- SOC220Y Canadian Society** (Formerly SOC303) 2L, 1T
An analysis of the changing structure of Canadian society. *Exclusion:* SOC303 (1975-76). *Prerequisite:* SOC101Y/P.I.
- SOC284Y Communication and Ethics** (Formerly CMM284Y) 2L
This course examines the different ways that the flow and the content of information is controlled by various agencies, as well as the effects of censorship - or lack of it - on society. *Prerequisite:* SOC152Y/P.I.
- SOC301Y Social Inequality** (Formerly SOC213E) 2L, 1T
Examines the various systems by which, in all human societies, rewards (such as prestige, power, wealth, and others) are differentially distributed, and the principal theories that have attempted to account for these phenomena. *Prerequisite:* SOC101Y/P.I.
- SOC303H Careers in Crime and Delinquency** (Formerly SOC306H) 2L, 1T
An examination of delinquent and criminal life-styles from the perspectives of social psychology, the sociology of occupations, and the sociology of law. The etiology, social history, organization, and societal response to different types of crime and delinquency are considered. Special attention is given to the career criminal. *Prerequisite:* SOC212Y/P.I.

- SOC304Y Change and Conflict in Contemporary Society** 2L, 1T
An examination of technical, social, and ideological changes accompanying industrialization in both developed and underdeveloped nations. *Prerequisite:* SOC101Y/P.I.
- SOC305Y Sociology of Religion** (Offered in alternate years) 2L, 1T
Various theories of religious behaviour and organization are examined with special attention given to the role of religion in relation to social change and social integration. Current research and methods of study will be stressed. *Prerequisite:* SOC101Y/P.I.
- SOC308H The Canadian Media** (Formerly CMM309H)(Offered in alternate years) 1L, 1T
Description and analysis of what is unique and distinctive about the electronic, printed and graphic media in Canada. Main topics of discussion: foreign influence in policy and decision-making (e.g. American ownership of major publishing firms), national networks in competition with private enterprise, the demand for more "Canadian content", the need for bilingual media, alternative presses, the handling of political crises and scandals in news reporting, etc. *Prerequisite:* SOC152Y/P.I.
- SOC309Y Sociology of Mass Communication** 2L, 1P
The course first critically appraises some modern communications theorists --Innis, McLuhan, Meier--and then dissects some old and new Canadian media institutions. Special emphasis on the origin and destiny of innovation, governmental media organizations and their articulation with media institutions. Participants create a project utilizing one medium. Enrolment limited. *Prerequisite:* SOC101Y/P.I.
- SOC311Y Sociology of Education** 2L, 1T
An analysis of the relationship between education and society in comparative perspective; the consequences of the internal structure of educational systems; and current controversies surrounding the function and structure of educational institutions. *Prerequisite:* SOC101Y/P.I.
- SOC312Y Population and Society** 2L, 1T
An analysis of population change and consequences from both global and Canadian perspectives. Trends in mortality, fertility, and migration are examined relative to their significance for growth, and their relation to social structure and social change. *Prerequisite:* SOC101Y/P.I.
- SOC313Y Sociological Theory** 2L, 1T
The development of sociology and contributions of particular sociologists whose concepts not only have historical interest but also illumine the subject matter and method of contemporary society. *Prerequisite:* SOC101Y/P.I.
- SOC315Y Interaction in Institutional Settings** (Offered in alternate years) 2L
Ethnographic description and comparative analysis of standard social occasions taking place within the domains of the corporation, the church, school, government, and the court. The primary course objective is the observation and documentation of the everyday enactment of institutional "rules of the game" for social interaction. *Prerequisite:* SOC101Y/P.I.
- SOC316Y Group Structure and Process** (Offered in alternate years) 2L, 1P
The study of small group processes and structures, including leadership, influence, cliques and coalitions, communication patterns, productivity and morale. *Prerequisite:* SOC202Y/P.I.
- SOC324Y Politics and Society** 2L, 1T
The social basis of politics. Culture and social organization in their relation to power and its application. *Prerequisite:* SOC101Y/P.I.

- SOC328H Environmental Sociology** 3S
An examination of the multi-faceted relationship between the physical environment, especially the built environment (e.g. buildings) and human behaviour. Principles underlying people's use of space and the potential significance of the environment as a variable in the study of human behaviour will be considered. *Prerequisite:* SOC101Y, SOC205Y/P.I.
- SOC329H Collective Behaviour** 2L, 1T
An analysis of non-conventional social action as seen in crowd and mass behaviour (panics, riots, demonstrations, crazes, etc.) involving a study of relationships between forms of collective action and the more conventional order, i.e., the relationship of collective behaviour to social action and control, stability and change. *Prerequisite:* SOC101Y/P.I.
- SOC330H Race and Ethnic Relations** (Formerly SOC310Y, formerly SOC206) 2L, 1T
Social processes involved in minority relations in terms of race and ethnicity and their social, economic, and political consequences. *Prerequisite:* SOC101Y/P.I.
- SOC332Y Small-group Communication** (Formerly CMM332Y) 1L, 1T
Verbal and nonverbal interaction in therapeutic, educational, administrative and business settings. Special attention will be paid to leadership, effective and ineffective communication, persuasive manipulations, conflict situations, decision making, permission, protection and power. Some of the material will be presented in simulated social situations. *Prerequisite:* SOC152Y/P.I.
- SOC333Y Stigmatization, Liberation and Communication** (Formerly CMM330Y) 1L, 1T
(Offered in alternate years)
Topics: 1. verbal and nonverbal aspects of the labelling process; 2. alternatives of identity management by the stigmatized; 3. verbal and nonverbal communication among members of the same stigmatized group, intergroup communication and communication between stigmatized and stigmatizer. Special emphasis on communication processes and media of the various liberation movements. *Prerequisite:* SOC152Y/P.I.
- SOC334Y Communication and Children** (Formerly CMM334Y) 1L, 1T
Description and analysis of children's verbal and nonverbal communication networks, patterns and skills in the playgroup, in the classroom and with siblings, and with teachers, parents and some other adults. *Prerequisite:* SOC152Y/P.I.
- SOC340Y Concepts, methods, and Values in Urban Studies** (Same as GGR340Y) 1L, 3P
A course designed for students concentrating in urban studies irrespective of major disciplinary area. It provides a survey of a variety of types of urban study from the social science perspective. The major emphasis is on linkages between the way in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues. *Prerequisite:* SOC205Y/GGR241Y/P.I.; and SOC201Y/(GGR271Y, GGR202H)/P.I.
- SOC345Y Canadian Communities** 2L, 1T
This course focusses on methods of defining and analysing Canadian communities and urban communities. Processes of development and change are emphasized. Communities are also examined within a comparative perspective. *Prerequisite:* SOC205Y/P.I.
- SOC346Y Society, Organization, and the Individual** (Formerly SOC314) 2L, 1T
An analysis of formal organizations, e.g. hospitals, prisons, schools, business firms, government agencies, etc., focusing upon their structural characteristics, effects of social environments, and the influence upon their members. *Exclusion:* SOC314 (1975-76). *Prerequisite:* SOC101Y/P.I.

- SOC390Y Independent Research**
Students who wish to explore a subject in Sociology not offered in the regular programme, or to a greater depth than was possible in any course already completed, should submit a specific proposal to a professor not later than October 1st. Preference is given to students with at least B+ standing in Second Year, and such registration is possible only when a faculty member is willing and available to supervise. *Prerequisite:* SOC101Y/P.I.
- SOC391H Independent Research** (See description, SOC390Y)
Not more than one Individual Studies course, SOC390Y, 391H, or 392H, can be taken from the same instructor. *Prerequisite:* SOC101Y/P.I.
- SOC392H Independent Research** (See description, SOC390Y)
Not more than one Individual Studies course, SOC390Y, 391H, or 392H, can be taken from the same instructor. *Prerequisite:* SOC101Y/P.I.
- NOTE:** Fourth-year courses provide the opportunity for greater specialization than is generally possible in second and third years. The actual content for "selected topics" courses, and additional prerequisites (if any) will be set by the instructor offering the course. Students who wish more information concerning specific courses and topics to be covered are advised to see the Faculty Advisor for Sociology.
- SOC410H Selected Topics in Sociological Theory and Research Methods I** 2S, 1P
PREREQUISITES: SOC200Y/201Y for research methods topics and SOC313Y for sociological theory topics, and at least two additional sociology courses beyond the introductory level.
- SOC411H Selected Topics in Sociological Theory and Research Methods II** 2S, 1P
PREREQUISITES: SOC200Y/201Y for research methods topics and SOC313Y for sociological theory topics, and at least two additional sociology courses beyond the introductory level.
- SOC420H Selected Topics in Interpersonal Relations I** 2S, 1P
Prerequisite: SOC202Y, and at least two additional sociology courses beyond the introductory level.
- SOC421H Selected Topics in Interpersonal Relations II** 2S, 1P
Prerequisite: P.I.
- SOC422H Selected Topics in Urban Sociology and Population I** 2S, 1P
Prerequisite: SOC312Y for population topics, and SOC205Y for topics in urban sociology, and at least two additional courses in sociology beyond the introductory level.
- SOC423H Selected Topics in Urban Sociology and Population II** 2S, 1P
Prerequisite: Same as for SOC422H.
- SOC490Y Independent Research**
Open only when a faculty member is willing and available to supervise, with preference to students with at least B+ standing in Third Year. Not more than one Independent Research course, SOC490Y, 491H or 492H, can be taken from the same instructor.
- SOC491H Independent Research** (See SOC490Y)
- SOC492H Independent Research** (See SOC490Y)

SPANISH

Faculty Advisor: Professor E.G. Neglia

Hispanic culture offers a variety probably unrivalled by any other modern western culture. In the Middle Ages Spain was the vital point of contact between the Christian, Jewish and Islamic civilizations; in its Golden Age it led the way in the exploration and settlement of the New World, and established a great empire in the process; today it is estimated that the Spanish language is the third most widely-spoken in the world.

Spanish studies has a twofold goal; the first, to learn to speak, understand, read and write with ease a language shared by over two hundred million people; the second, to become familiar with the civilization and intellectual life of the Hispanic world through study of the artistic and literary phenomena of that world.

Courses are offered for beginners in the language, as well as those with Grade 13 standing or equivalent. Stress is laid on both the spoken and written language and the language laboratory is used to promote fluency. After the first year all courses, both literary and linguistic, are conducted in Spanish as much as possible to give the student maximum exposure to the language.

Two courses, Spanish Civilization and Culture, and Latin American Civilization and Culture, are offered in English and may be taken by students in any year. These courses provide comprehensive views of the social, political, artistic and intellectual developments of Spain and Latin America and have proven useful not only to students studying the language but also to those who may have an interest in the Hispanic scene for other reasons.

Core language courses are offered in all years. Students wishing to specialize would, in addition to these core courses, follow programmes in literature and linguistics designed to allow them to enter Graduate Studies in Spanish or Type A courses at the Faculty of Education. Students may elect a single specialization (nine courses) or a combined specialization programme of Spanish and any other discipline (seven). In addition, Erindale offers a minor programme in Spanish consisting of five courses.

Opportunities for qualified teachers exist at the secondary and university levels. In addition, the study of Spanish as of other modern languages, may prepare students for such careers as those in the foreign service, journalism, publishing, commercial and cultural relations between Canada and Spanish-speaking countries. The development of closer Canadian relations with Spain and Latin America will extend the range of opportunity for those well versed in the Hispanic field.

In addition to Erindale course offerings, other courses may be taken on the St. George campus with the permission of the Faculty Advisor. Students may also wish to participate in the Study Elsewhere programme.

Early consultation with the staff is essential if the student is to be assured of a programme suitable for his needs and interests.

Courses with Low Enrolment may have to be withdrawn.

Specialist Programme

9 SPA courses required in a programme of at least 20 courses:

The Spanish requirement for a joint specialization is 7 SPA courses.

Minor programme

5 SPA courses required in a programme of at least 15 courses.

SPA100Y **Spanish Language for Beginners**

3L, 2P

For those who have had no previous background in Spanish. By the end of the year, students should have sufficient skill in the written and spoken language to be able to specialize in Spanish if they wish. Emphasis will be placed on oral practice both in class and in the language laboratory. *Exclusion:* Grade 13 Spanish.

- SPA220Y Composition and Oral Practice I** 2L, 1T
Conducted mainly in Spanish and designed for those who have completed a basic course in the language. A grammar review and intensive written and oral practice provide an opportunity for a greater range of expression and a broader understanding of the language. *Prerequisite:* SPA100Y/Grade 13 Spanish.
- SPA250Y Spanish Civilization and Culture (In English) (Formerly SPA291Y)** 2L
Presents an overall view of the activities of the Spanish people from the early settlers of the peninsula to the current scene. Using the history of the country as a basic frame, it deals with the major currents of thought and the major accomplishments in literature, art, architecture and music. Slides, music and other illustrative material will be used.
- SPA258Y Forms of Modern Hispanic Literature (Formerly SPA247F and SPA257S)** 2L
An introduction to ways of analysing literature through a study of Modern Hispanic literary texts (drama, prose and poetry). *Exclusion:* SPA247F, 257S *Prerequisite:* SPA100Y/Grade 13.
- SPA280Y Latin American Civilization and Culture (In English) (Formerly SPA292Y)** 2L
From the pre-Columbian civilization (Aztec, Maya and Inca) to the present; deals with significant manifestations in literature, art, music, architecture. Discussion of social, economic and political problems of Latin America. Illustrative material.
- SPA320Y Composition and Oral Practice III** 2L, 1T
Conducted mainly in Spanish and designed to meet the needs of those who already have a good basic knowledge of the language. Emphasis on improvement of style, translation, essay writing and oral practice. *Prerequisite:* SPA220Y.
- SPA348Y Modern Hispanic Drama (Formerly SPA346H and 376H) (Offered in alternate years)** 2L
The major Spanish and Spanish American playwrights of the 20th century. Plays will be discussed and analyzed and, to reveal their full meaning in tangible theatrical terms, students will be encouraged to participate in the actual performance of some plays in a real theatre atmosphere. *Exclusion:* SPA346H, 376H. *Prerequisite:* SPA220Y.
- SPA350Y Spanish Literature of the Golden Age (Offered in alternate years)** 2L, 1T
A study, in Spanish, of Spain's most interesting and richest period, comprising the sixteenth and seventeenth centuries. Original texts - poetry, drama and novel - will be studied as reflecting the society of the age and its changing values. Special attention will be given to the picaresque novel and Cervantes. *Prerequisite:* SPA220Y and one other course of the 200-or 300-series.
- SPA356H Modern Spanish Novel (Offered in alternate years)** 2L
Covers the period from the beginning of the realistic novel in the nineteenth century up to the present day. Students will be expected to do a certain amount of reading of original texts as a preparation for their classes and a good working knowledge of Spanish is assumed as the course will be given in Spanish. *Prerequisite:* One or more SPA200-series courses.
- SPA366H Modern Spanish American Poetry (Offered in alternate years)** 2L
A study of some major poets and the different currents in Spanish American poetry; Pablo Neruda, César Vallejo for special study. *Prerequisite:* One or more SPA 200-series courses.
- SPA382H Modern Spanish American Novel (Offered in alternate years)** 2L
A study of the representative novels of Spanish America, including the regional and Indianist novel as well as that of the Mexican revolution. *Prerequisite:* One or more SPA 200-series courses.

- SPA385H **Spanish American Stories** (Offered in alternate years) 2L
Representative works of outstanding Spanish American short story writers including Quiroga, Cortázar, Rulfo and Borges. *Prerequisite*: One or more SPA 200-series courses.
- SPA420Y **Advanced Composition and Oral Practice** 2T
Designed for those who already have a good knowledge of the language. Emphasis on ability to write and speak good Spanish through translation, essays, letters, class discussions, etc. *Prerequisite*: SPA320Y.
- SPA425H **History of the Spanish Language** (Formerly SPA325H) (Offered in alternate years) 1L
Begins with an introduction to phonetics, phonology and basic concepts of linguistics. Proceeds to the study of the evolution of Spanish from its vulgar Latin origins up to the present day. An attempt will be made to relate linguistic development to historical and cultural aspects. Some general knowledge of Latin is desirable. Interest in theoretical linguistics and a working knowledge of Spanish will be assumed. Given in Spanish. *Prerequisite*: SPA220Y.
- SPA436H **Contemporary Spanish Poetry** (Offered in alternate years) 2L
A study of some major poets and poetics of the twentieth century. The lectures will be in Spanish. *Prerequisite*: SPA220Y. *Corequisite*: SPA320Y.

STATISTICS

Faculty Advisor: Professor K.W. Ng

Statistical theory and methodology has applications in almost all areas of science, engineering, business, government and industry. The practising statistician is involved in such diverse projects as designing clinical trials to test a new drug, economic model-building to evaluate the costs of a guaranteed-income scheme, predicting the outcome of a national election, planning a survey of television viewing habits, and estimating the deer population in a popular hunting district. Today's consumer is bombarded with the results of so many quantitative studies using statistical methodology that it is necessary for him to know something about statistics in order to be properly critical. A basic knowledge of statistics should be an integral part of everyone's general education.

STA202H-212H is designed for the student who wishes an introduction to statistical thinking without bringing in such tools as probability theory and mathematical analysis. It is a terminal course, emphasizing the handling of data and graphical procedures in making inferences about populations.

STA242Y is designed for the more mathematically prepared student and is the necessary prerequisite for all third and fourth year courses in Statistics at Erindale.

STUDENTS WHO ARE INTERESTED IN A PROGRAMME ARE STRONGLY URGED TO HAVE EARLY CONSULTATION WITH THE FACULTY ADVISOR OR ANY STAFF MEMBER.

Specialist programme (Applied Statistics)

Nine courses are required in a programme of at least 20 courses:

MAT130Y/132Y/134Y/135Y/138Y/139Y; CSC139H/149H; (STA202H recommended)

STA242Y; MAT234Y/235Y/239Y, MAT228H; CSC158H

STA302H, 312H, 322H(G), 347H, 402H, 412H, 442H(G), 432H/452H(G)/457H(G)/462H(G); CSC248H/258H/336H

Minor programme (Applied Statistics)

Six courses are required in a programme of at least 15 courses:

MAT130Y/132Y/134Y/135Y/139Y; CSC139H/149H; (STA202H recommended)

MAT228H; STA242Y; CSC158H; (MAT234Y/235Y/239Y recommended)

STA302H, 402H; Equivalent of 1 1/2 full courses from STA312H, 322H(G), 347H, 412H, 432H, 442H(G), 457H(G)

STA202H (I)	Statistics (Same as PSY200H and GGR202H) Acquaints beginning students in the biological, physical and social sciences with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples. <i>Exclusion:</i> Any concurrent or previous Statistics course.	2L, 1T
STA212H (I)	Application of Statistics A continuation of STA202H including an introduction to non-parametric, analysis of variance and linear regression techniques. Students interested in taking this course should consider carefully the courses listed below as exclusions and choose the appropriate sequence after discussion with faculty members. <i>Exclusion:</i> STA222Y(G), 242Y, 252Y(G), PSY201H, ECO220Y, GGR212H, BIO361H. <i>Prerequisite:</i> STA202H.	2L, 1T
STA242Y	Probability and Statistics: An Introduction Elements of probability theory, common distributions, point and interval estimation, standard significance tests, introduction to least squares and analysis of variance. <i>Exclusion:</i> STA212H, 222Y(G), 252Y(G), PSY201H, ECO220Y, GGR212H, BIO361H. <i>Prerequisite:</i> MAT130Y and MAT124H/MAT132Y/134Y/135Y/138Y/139Y.	2L, 1T
STA302H	Regression Analysis (Formerly STA342H)(Offered in alternate years) Least squares theory and fitting equations to data, analysis of residuals, transformations. Practical implementations stressed. <i>Prerequisite:</i> STA242Y (C or better).	2L, 1T
STA312H	Methods of Statistical Inference A survey course: the mathematical methods of statistical inference. <i>Exclusion:</i> STA352Y(G). <i>Prerequisite:</i> STA242Y.	2L, 1T
STA347H	Probability and Applications (Offered in alternate years) Probability spaces and random variables, conditional probability, characteristic functions, limit laws. Application of common probability distributions. Introduction to stochastic processes. <i>Exclusion:</i> STA357Y(G). <i>Prerequisite:</i> MAT234Y/235Y/239Y; STA242Y (or P.I.)	2L, 1T
STA402H	Experimental Design (Formerly STA332H)(Offered in alternate years) Statistical issues in the design of experiments and the collection of data. Analysis of variance, randomization, factorial designs, blocking, confounding, higher-way tables. <i>Prerequisite:</i> STA302H (formerly STA342H)	2L, 1T
STA412H	Estimation and Testing Basic theory of estimation and hypothesis testing. <i>Prerequisite:</i> STA312H.	2L, 1T
STA432H	Advanced Statistics Topics selected from: non-parametric techniques, multivariate analysis, decision-theoretic methods, Bayesian analysis, exploratory data-analysis, sequential procedures, reliability and life-testing. <i>Prerequisite:</i> STA242Y.	2L, 1T

SURVEY SCIENCE

Faculty Advisor: Professor G. Gracie

Survey Science is concerned with the measurement and representation of the geometric and physical features of our environment. It finds application in a variety of activities, which include mapping the earth's surface and charting its waters, establishing land boundaries and delineating property, searching for and inventorying natural resources, determining the size and shape of the earth, and locating transportation facilities and other engineered structures.

Survey Science has close contact with many other disciplines, particularly those which deal with the land, its use, subdivision, development and management. Although very much a quantitative science, built upon a strong base of mathematics, physics and statistics, it also includes a substantial treatment of the law as it relates to the land and professional conduct.

Students who intend to become professional surveyors will satisfy the academic requirements of the Association of Ontario Land Surveyors by completing a four-year (20-course) *Specialist Programme* which is outlined in detail below.

All SUR courses, except SUR250H, 350H, 360H, 430H, and 450H, count as science credits.

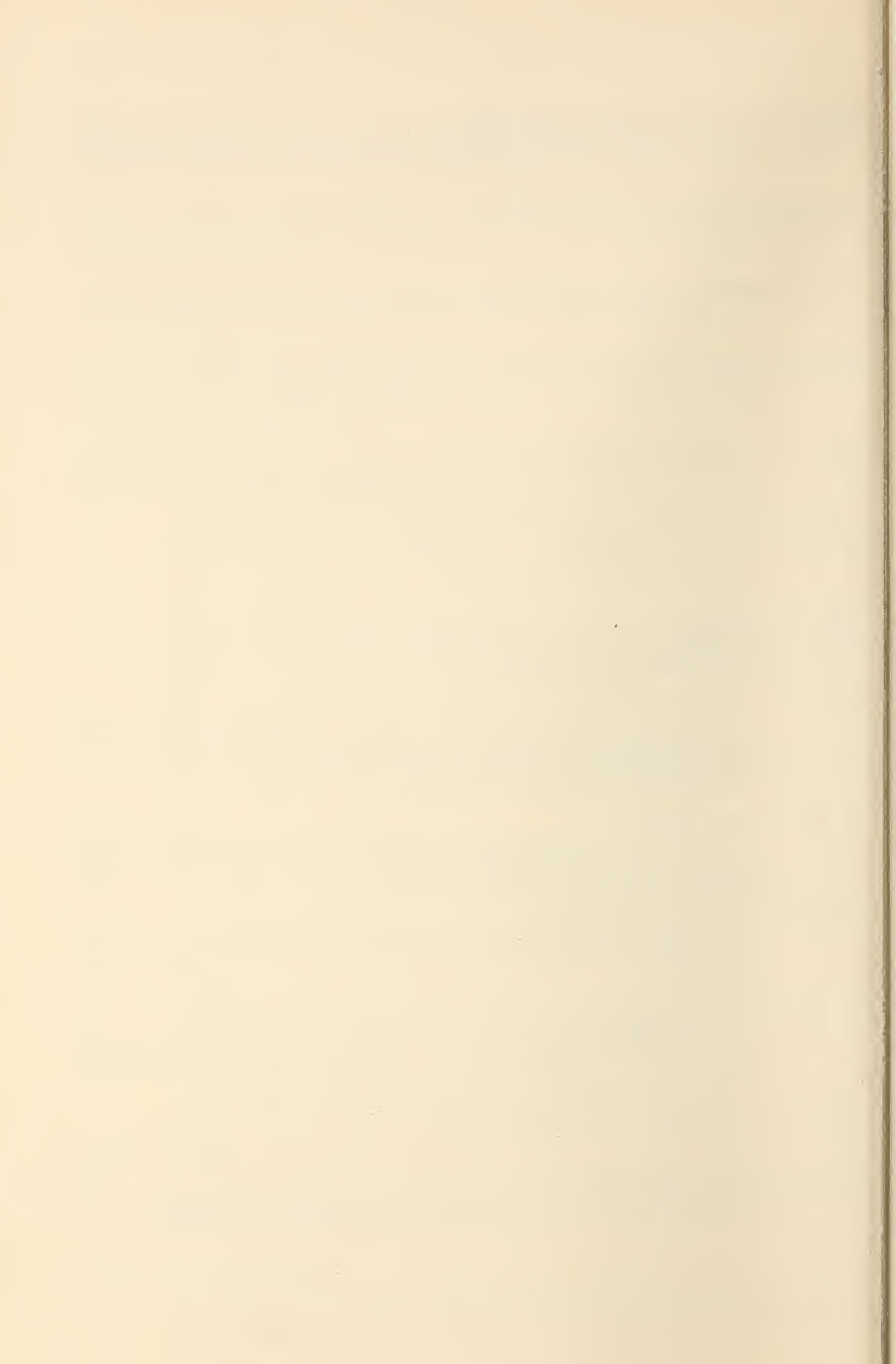
Specialist programme

15 courses in a programme of at least 20 courses:

CSC108H/139H/148H/149H, EPS120Y/GGR100Y/175Y, GGR373Y/GGR373F and GGR383S
MAT135Y/132Y, PHY110Y/118Y/135Y/140Y,
STA242Y, SUR200Y, 220Y, 230Y, 240H, 250H
SUR303Y, 305H, 320H, 350H, 360H
SUR405H, 410H, 420Y, 430H

- | | | |
|---------|--|--------|
| SUR200Y | Introduction to Surveying | 2L, 3P |
| (I) | Introduction to the procedures used to acquire field data, process survey information, and present results in various forms, with applications in various surveying activities. <i>Prerequisite:</i> Grade 13 MAT R&F and C. | |
| SUR220Y | Photogrammetry | 2L, 3P |
| | Stereoscopy and parallax, photograph geometry, the metric camera, interior and exterior orientation of the metric photograph, the projective model, space resection and intersection, relative and absolute orientation. Photogrammetric instrumentation. Application of photogrammetry to map compilation and other areas. <i>Prerequisite:</i> MAT135Y and PHY110Y/118Y/135Y/140Y. | |
| SUR230Y | Land Surveying | 2L, 3P |
| | Principles and procedures for precise measurement of direction, distance, height and depth. Introduction to electromagnetic distance measurement and positioning, and inertial survey systems. Curve geometry. <i>Prerequisite:</i> MAT135Y, PHY110Y/118Y/135Y/140Y, SUR200Y. | |
| SUR240H | Measurement Theory and Adjustment of Observations | 2L, 2P |
| | The statistical theory of measurement, including the concepts of measurement and error, measures of precision and accuracy, error propagation, weighting of observations, error ellipses and ellipsoids, and the statistical properties of 2- and 3-dimensional errors. The method of least squares, with application to several problems. <i>Corequisite:</i> STA242Y. | |
| SUR250H | Introduction to Survey Law | 3L |
| | Legal history; legal systems and institutions; introduction to English law in general with emphasis on land law. <i>Prerequisite:</i> P.I. <i>Exclusion:</i> SUR310Y. | |
| SUR260H | Land Planning | 3L |
| | Fundamentals of land development; engineering services and land economics. (Limited enrolment). <i>Prerequisite:</i> P.I. | |
| SUR303Y | Geodesy | 2L, 2P |
| | The figure of the earth and the precise determination of position and height on or near the earth's surface. Fundamentals of geometrical geodesy, physical geodesy, satellite geodesy and map projections. <i>Prerequisite:</i> MAT135Y, PHY110Y/118Y/135Y/140Y, SUR200Y. | |
| SUR305H | Geodetic Astronomy | 2L, 3P |
| | The celestial sphere and its coordinate systems, variations in celestial coordinates, time systems, star catalogues and instrumentation. Determination of astronomic azimuth, latitude and longitude. <i>Prerequisite:</i> SUR230Y/P.I. | |

- SUR320H Data Management and Representation** 2L, 2P
Cartographic, photographic, digital and other forms of data representation. Data transfer, storage and retrieval. Data bases and data banks. Automated and interactive systems. *Prerequisite:* CSC108H/139H/149H, SUR220Y.
- SUR331H Special Topics in Survey Science**
Study of selected topics in Survey Science not covered in the regular courses. *Prerequisite:* P.I.
- SUR332H Special Topics in Survey Science**
Study of selected topics in Survey Science not covered in the regular courses. *Prerequisite:* P.I.
- SUR333H Special Topics in Survey Science**
Study of selected topics in Survey Science not covered in the regular courses. *Prerequisite:* P.I.
- SUR340H Land Planning: Regional Studies Project**
Principles and practice of urban and rural planning and major development works. Land use and other studies needed for comprehensive planning and preparatory to site planning and development. *Prerequisite:* P.I.
- SUR350H Land Law and Registration** 3L
Real property law; land survey systems; title and deed registration systems. *Prerequisite:* SUR250H/P.I. *Exclusion:* SUR310Y.
- SUR360H Boundary Law** 3L
Boundaries, land parcel descriptions; principles of evidence. *Prerequisite:* SUR350H/P.I. *Exclusion:* SUR310Y.
- SUR405H Field Survey Projects**
An intensive three-week session (August 20 through September 7, 1979) in the field covering various aspects of survey project design, data acquisition, data reduction and layout. The first two weeks of the course are held off campus; the third week on campus. *Prerequisite:* SUR230Y, SUR240H, SUR303Y, SUR305H.
- SUR410H Survey Control** 2L, 2P
The fundamentals of survey control systems; specific control systems, such as geodetic triangulation and trilateration, photogrammetric triangulation, and satellite triangulation. *Prerequisite:* SUR220Y, SUR405H.
- SUR420Y Survey Design and Synthesis** 2L, 2P
Consideration of the factors involved in the design and synthesis of cartographic, hydrographic and engineering surveys, and surveys for land development. *Corequisite:* SUR410H.
- SUR430H Professional Affairs** 3L
History and tradition of surveying; professional charter by statute; ethics and responsibility; liability; fundamentals of business management; contract law; negligence law; court procedure and expert witness. *Prerequisite:* SUR360H/P.I.
- SUR440H Land Planning: Site Development Project**
Site planning, land development schemes and implementation. *Prerequisite:* P.I.
- SUR450H Advanced Survey Law** 3L
Advanced studies in Canadian survey law; environmental law; drainage law; land information systems and cadastre; special topics. *Prerequisite:* SUR360H/P.I.



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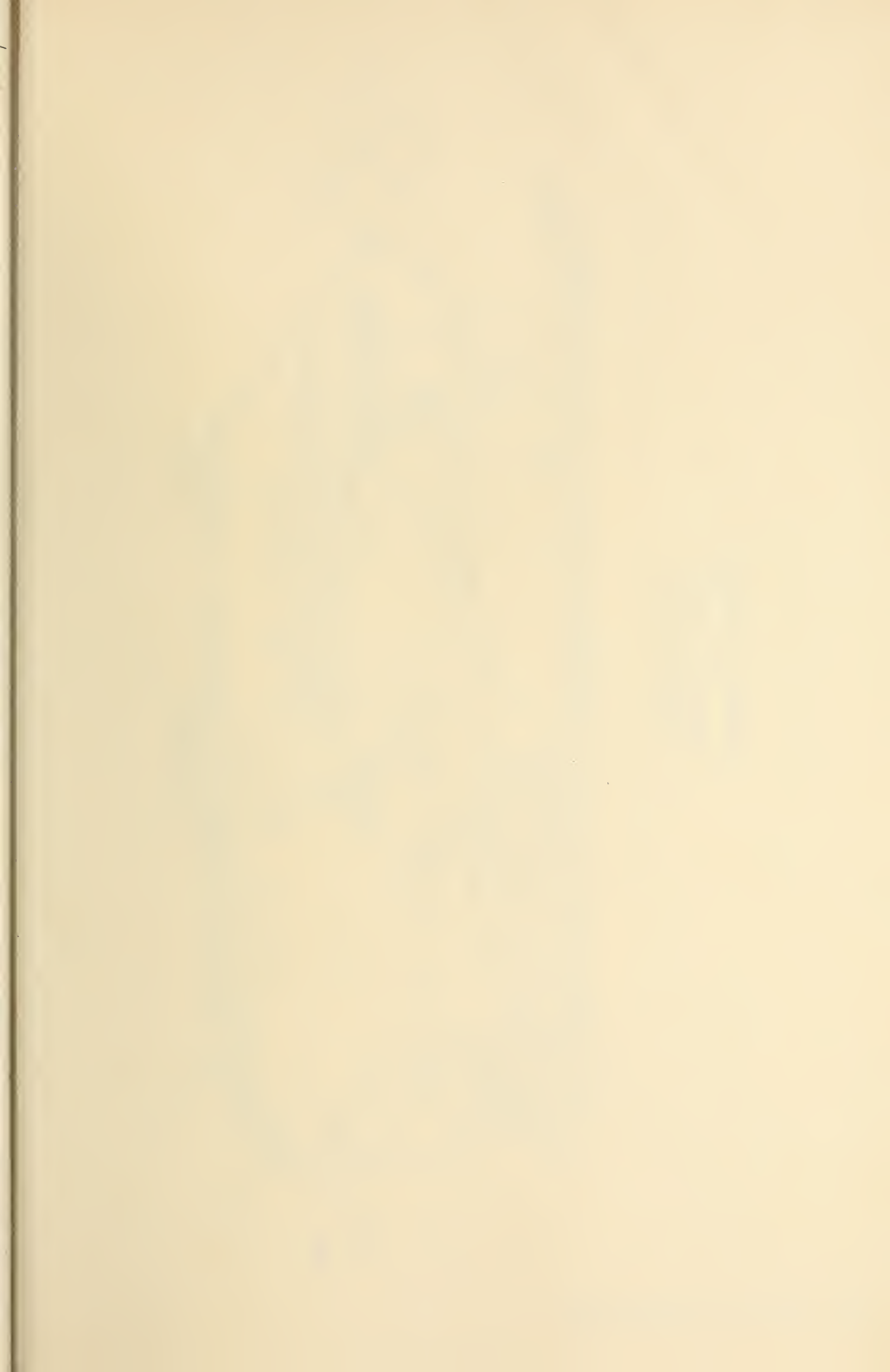
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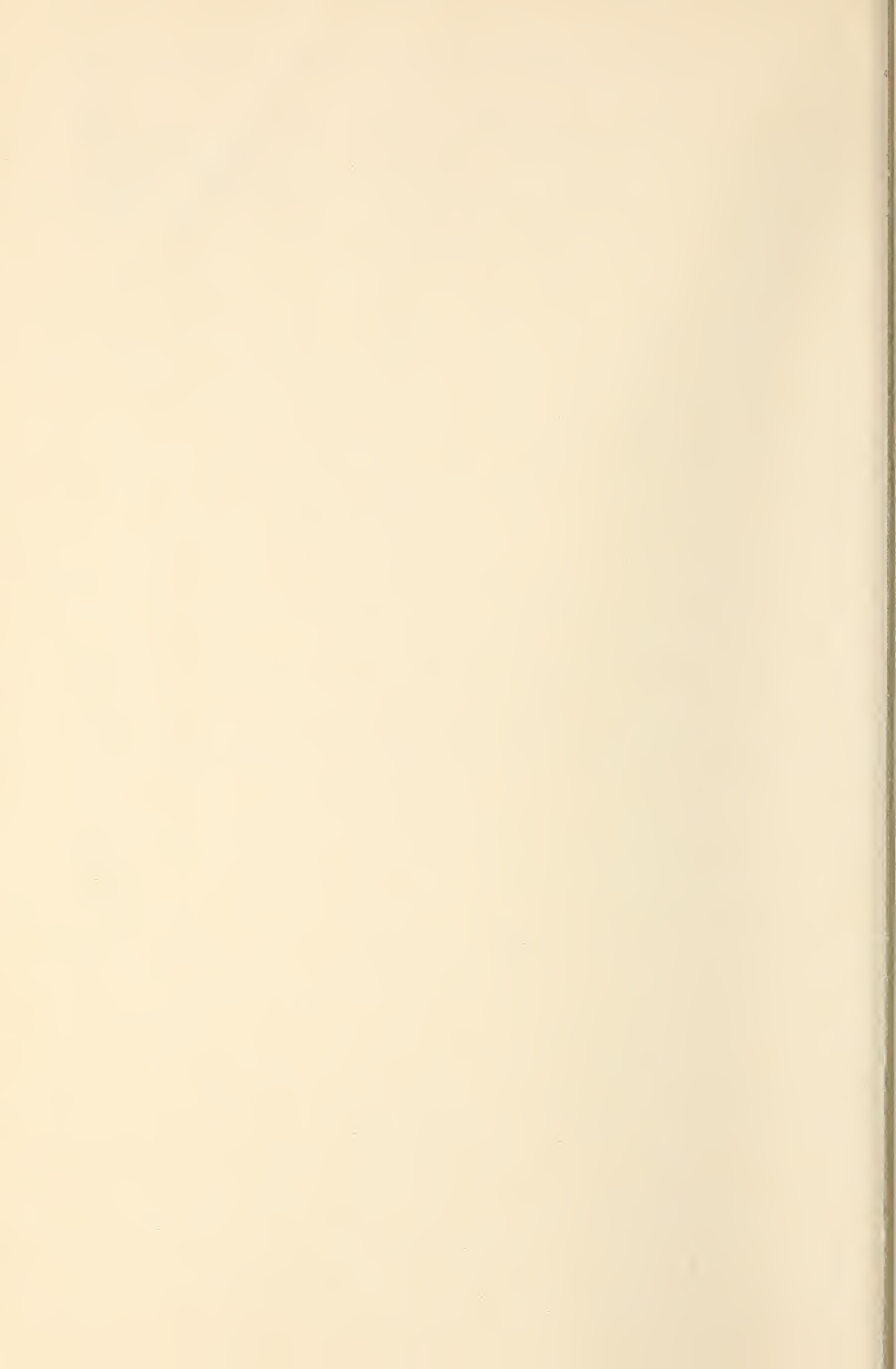
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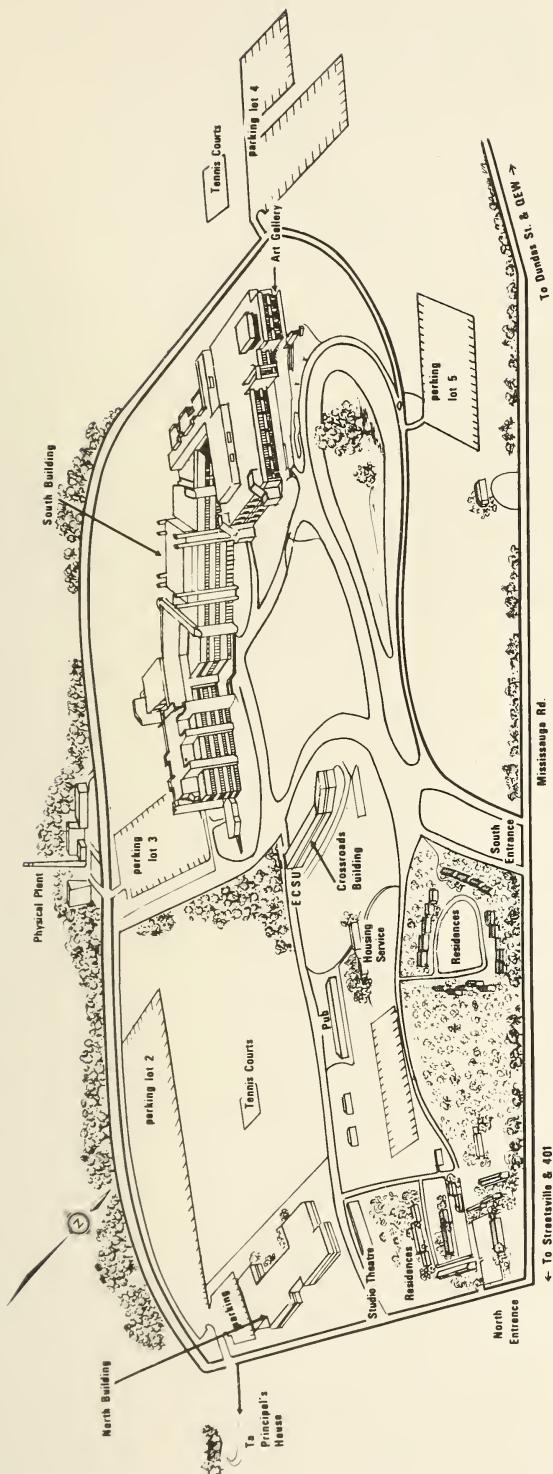
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**ERINDALE COLLEGE
MISSISSAUGA CAMPUS
UNIVERSITY OF TORONTO**

See inside front cover for highway map.





University of Toronto

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Erindale

Mississauga Campus

College

Supplement to the 1979-80 Calendar



HOW TO USE THIS PUBLICATION

The information in this publication supplements and supersedes that given in the 1979-80 Erindale College Calendar. It is essential both Calendar and Supplement be used when completing your Registration Form. Registration, course enrolment and fees payment instructions are included. The Timetable indicates the actual term(s) in which courses are offered this session. Students should read the first 48 pages of the Calendar carefully and consult the Registrar's Office if they have any questions.

Eligibility

Receipt of registration material or any College publication, submission of a Registration Form or payment of fees does not necessarily constitute eligibility to register in the coming session.

Students who are suspended as a result of the May or August examinations will be so informed on the statement of results and will not be permitted to register in the Winter Session. Any fees paid toward the Winter Session will be refunded in full.

How to Read the Timetable

1. **Course Code** - consists of a three-letter subject abbreviation, a three digit number and a one letter suffix denoting the credit value and duration of the course. The course suffixes in the Calendar indicate the credit value only. In this supplement:

Y = one full course given throughout the session
A = one full course given in the First term
B = one full course given in the Second term
H = one half course given throughout the session
F = one half course given in the First term
S = one half course given in the Second term

2. **Title** - an abbreviated version of the full title in the Calendar

3. **Instructor** - the Instructor of the course, if available

4. **Section** - a 'section' is a class group within a course. You must take all of your lecture hours with the same section.

Every course has a Lecture section and may in addition have a Tutorial and/or Practical section. You must choose one of each type listed.

Section indicators consist of two elements:

- i) one-letter prefix: L = Lecture
P = Practical
T = Tutorial

- ii) four digit number identifying section group. If the first digits are 60 then the section is taught in the evening.

5. **Time** - consists of two elements:

- i) day(s) of the week expressed as M,T,W,R,F,S, where R = Thursday
S = Saturday
Where more than one letter is used, classes meet on each day indicated.

- ii) time - unless stated otherwise, the duration of the section is one hour and the starting time is given. ALT means that the section is given only on alternate weeks. The comma (,) means 'and'.

6. **Code**

* - this course has limited enrolment and requires balloting in addition to entering the course on the Registration Form. Your enrolment is ensured only after the Department has made its selection from the list of applicants.

Please refer to the special instructions at the beginning of each subject in the Timetable for Balloting procedures for each Department. Lists of successful candidates will be posted by the Department by the time classes begin.

- D - you must visit the Departmental Representative during Registration Week (September 4 - 7) before course enrolment is considered complete. Enter this course on the Registration Form with all others.

- L - this section has a limited size. Please select your preferred time but understand that you may not be assigned to that section.

Blanks or TBA beside a course indicate that the information was not known at the time of publication.

If you submit your course selections during the summer, actual section assignments will show on your personalized timetable.

Students who do not submit course selections during the summer must contact the Department concerned during Registration Week.

CHOOSING YOUR COURSES

Choose Your Courses

Consult the Calendar and Timetable and decide which courses you wish to take, paying close attention to the prerequisites, corequisites and exclusions as listed in the course descriptions. It is your responsibility to ensure that your programme satisfies the faculty degree requirements as stated on page 30 in the Calendar.

Limitation of Enrolment in Courses

The Faculty of Arts and Science reserves the right to limit the number of registrants in any course or section of a course if the number of qualified applicants exceeds the resources available.

The College reserves the right to assign students to alternate sections while balancing sections and trying to ensure conflict-free timetables for everyone.

You will receive a personal timetable printout before or during Registration. Any unresolved conflicts must be eliminated by course changes after classes begin.

Pre-requisites, Co-requisites and Exclusions

Prerequisite: must be passed before the course is taken
Corequisite: must be taken together with the course if not already taken
Exclusion: may not be combined with the course for degree credit

Students without the required courses may consult the Department about the acceptability of other work which may be equivalent.

Ballot for Limited Enrolment Courses

Some Erindale courses require balloting. Follow the balloting instructions at the beginning of each discipline in this Timetable, then enter the courses on your Registration Form.

St. George Campus Arts & Science Courses

With written approval from Departmental Representatives on both campuses, students with fourteen or more credits at the beginning of the session, may take all of their courses on the St. George Campus. Other students are restricted to a maximum of two full course equivalents per year.

A form for this purpose is available from the Erindale Registrar's Office or from the Discipline Representatives. It must be completed and attached to the Registration Form before the course is added to your programme. Do not delay submission of your Registration Form waiting for approvals. The St. George course can be added in September on a Course Change Form.

Balloting for St. George Courses

Some St. George courses require a ballot and are highlighted by an asterisk in that campus' Supplement to the Calendar. As there is a deadline for the submission of most ballots you must consult the St. George Supplement for information and instructions. This ballot procedure is in addition to the intercampus permission procedure described above.

If you submit a ballot you must go to the Department to determine if you have been successful.

HOW TO COMPLETE YOUR REGISTRATION FORM

Section A

If there are any errors in preprinting correct them on the Registration Form. Change of name requires a special form obtainable from the Registrar's Office.

ADDRESSES

SESSIONAL - All mail during the session in which you are currently registered (e.g. September to May) will be sent to this address.

HOME - This will be the same as sessional if you live at one address all year. During the summer all correspondence and FINAL RESULTS will be mailed to this address.

BUSINESS - Contact address and phone number during the day if you are working.

Section B

The College must report biographical information to the government. Please make sure that the information is correct. Additions and changes should be made on the right hand side of the Registration Form.

Section C

Anyone who is not a Canadian citizen or landed immigrant must complete this section. This determines whether you will be charged the higher fees paid by students on Authorizations. The single letter 'H' or 'L' in the space beside Mother Tongue shows whether you are currently assessed the higher or lower fees.

Section D

When you have chosen your programme enter the courses in the boxes provided under 'Course' e.g. MAT130Y.

The campus codes are: 5 for Erindale College courses
3 for Scarborough College courses
1 for St. George Campus courses

Every course has a Lecture section. If there is only one L section enter that number. If there is more than one, pick the one that suits your personal schedule best and enter that number. If there are Practical or Tutorial sections listed select one and enter that number in the appropriate 'P' or 'T' box.

Calculate your course load to determine the fee payable. Each A,B,Y course = 1.0
Each F,S,H course = 0.5

Section E

Consult the Fees Schedule for instructions.

Declaration

Sign and date the form. Your signature verifies that the information is correct. Please note that sanctions will be applied for a false declaration.

HOW TO REGISTER

IT IS TO YOUR ADVANTAGE TO REGISTER EARLY. YOU WILL HAVE A BETTER CHANCE AT LIMITED ENROLMENT COURSES, PREFERRED TIMES AND AVOID LINE-UPS.

ALL STUDENTS

1. Complete your Registration Form.

This is a personalized coded form and duplicates cannot be issued.

2. Return it to the Registrar's Office (Room 2122) as soon as possible.

STUDENTS WHO SUBMIT THEIR FORMS BEFORE AUGUST 1 WILL BE GIVEN PREFERENCE IN THE ASSIGNMENT OF COURSES AND SECTIONS.

From August 1 until August 17, Registration Forms may still be submitted to the Registrar's Office (Room 2122) but many courses/sections may be closed by then.

After August 17, students who have not submitted their course selections and paid fees must report to the College during Registration Week.

3. Fees Payment - see the Fees Schedule for details.

You may pay:
i) in person or by mail to reach us by August 17.
ii) in person during Registration Week.

N.B. Regardless of the method you select, return the correct copies of the Registration Form now.

If you are enclosing payment, return:

- i) completed Registration Form - all copies intact.
- ii) certified cheque or money order
- iii) any other documents such as St. George Course Authorization forms, OSAP Notice of Assessment, Address Change Form, etc.

OR

If you are deferring fees payment, return:

- i) only the top (white) copy of the Registration form. Complete the Fees Payment Calculation but keep the pink and yellow copies to submit with your payment
- ii) any other documents such as St. George Course Authorization Forms that pertain to your course selection.

NEWLY ADMITTED STUDENTS

4. All newly admitted full-time students must come to the College during Registration Week as follows:

(Surname begins with)	A - D	Tuesday	September 4	9:00 - 10:30 am
	E - L	Wednesday	September 5	9:00 - 10:30 am
	M - R	Thursday	September 6	9:00 - 10:30 am
	S - Z	Friday	September 7	9:00 - 10:30 am

Those who have not handed in their Registration Form, or paid fees by August 17, will do so then.

5. Students who select courses with a D or * are obliged to follow Departmental procedures as outlined in the Timetable. This should be done the day they are at the College to register.

6. EVERY NEWLY ADMITTED FULL-TIME, FIRST YEAR STUDENT IS REQUIRED TO WRITE A TWO-HOUR ENGLISH LANGUAGE WRITING TEST ON THE DAY OF REGISTRATION.

THIS IS FOR DIAGNOSTIC PURPOSES ONLY, AND DOES NOT AFFECT ADMISSION. TIMES WILL BE ANNOUNCED AT REGISTRATION.

7. ALL FIRST YEAR DIVISION OF HUMANITIES STUDENTS MUST ATTEND A SHORT MEETING IN ROOM 292, NORTH BUILDING AT 4:00 P.M. MONDAY, SEPTEMBER 10.

Photographs

All newly admitted students are requested to supply the College with one unmounted passport type photograph for purpose of record. Head and face should show clearly in an area not less than one inch square.

Write your name and student number on the back and attach it to your Registration Form.

Orientation for New Students

All newly admitted Erindale College students are invited to attend an "Orientation" on the day they register. This will include a luncheon hosted by the Principal.

CONTINUING AND RETURNING STUDENTS

4. If you complete course selection and pay at least the first instalment of fees by August 17, you will receive your timetable and student card by mail. You will not be required to appear in person during Registration Week unless you selected courses with a D or *. These require you to follow Departmental procedures during Registration Week appearing in person if necessary.

5. Students who do not submit their registration form or pay fees before August 17, or both, will have to come to the College between September 4 - 7 at the following times:

(Surname begins with)	A - D	Tuesday	September 4	2:00 - 4:00	or 6:30 - 8:00
	E - L	Wednesday	September 5	2:00 - 4:00	or 6:30 - 8:00
	M - R	Thursday	September 6	2:00 - 4:00	or 6:30 - 8:00
	S - Z	Friday	September 7	2:00 - 4:00	or 6:30 - 8:00

Students who do not submit their Registration Forms until Registration Week and who have courses with a D, * or L in the timetable must visit the appropriate Department when they register.

PART-TIME STUDENTS

Part-time students should follow the basic instructions above for mail-in registration, or they may come to the College in the appropriate afternoon or evening sessions (see the schedule above).

Late Registration

Since it is possible to register by mail during the summer and in person during Registration Week, there should be no reason for registering late, and for doing so, a financial penalty will be imposed. Late admissions and cases of illness or hardship must see their Registrar for permission to register after September 7.

Course Changes

Course changes will not be accepted until the week of September 17 - 21, but you should attend classes in all courses in which you intend to register.

ALL COURSE DROPS OR ADDS MUST BE REPORTED WITHOUT EXCEPTION, FAILURE TO DO SO OR TO OBSERVE THE PROPER DEADLINES CAN HAVE SERIOUS FINANCIAL AND ACADEMIC CONSEQUENCES.

ALL ADDITIONS REQUIRE THE SIGNATURE OF THE INSTRUCTOR OF THE COURSE.

Section Changes

These should be negotiated with the Department concerned and need not be reported to your Registrar; exceptions to this rule are changes into or out of evening sections (L6001) which should be reported on a Course Change Form.

Permission of Instructor

If you select a course which requires "Permission of the Instructor" or "P.I." you are required to obtain written permission from the Instructor at the beginning of term.

Library Cards

Library cards are permanent and must be validated each year by the Library upon presentation of a current student card. New students will receive their card at Registration. A charge of \$2.00 is made to replace cards.

Financial Aid and Student Awards

For information on scholarships, medals, prizes, bursaries, special awards, governmental financial assistance and use of awards to pay your fees, please consult the AWARDS BULLETIN that is available in all Registrars' Offices and in the Student Aid Office (Room 211, North Building). Financial Aid Notice Boards are located outside the Student Aid Office and outside the South Building cafeteria.

WHERE TO GO FOR HELP

The Staff of Erindale College are here to help you while you are a member of our community. We list below some of the people you should consult first with your questions or problems.

The Registrars:

Humanities & Part-time	Dr. L.T. McCormick	Room 213	828-5244
Social Sciences & Sciences	Mrs. M.H. Cooper	Room 2122	828-5331
Registration Officer	Miss C. Campbell	Room 2122	828-5231

The Associate Deans:

Humanities & Part-time	Dr. R.W. Van Fossen	Room 229	828-5215
Social Sciences	Dr. H. Andrews	Room 2077	828-5417
Sciences	Dr. Betty I. Roots	Room 2037	828-5343

The Principal and Vice-Principals:

The Principal	Dr. Paul W. Fox	Room 3137	828-5211
Vice-Principal (Academic)	Dr. Howard Andrews	Room 2077	828-5417
Vice-Principal (Administration)	Mr. Robin Ross	Room 3135	828-5208

Academic Counselling

Newly Admitted Students

Will be assigned a Faculty Advisor when they see their Registrar during the summer.

Continuing and Returning Students

Students "on Academic Probation"

If you are 'on academic probation' you will be required to consult an academic counsellor. His or her signature must appear in the upper right hand corner of your Registration Form.

You may choose your counsellor from the following:

- 1) The College Registrars
- 2) The Discipline Representatives and Faculty Advisors
- 3) The faculty member already assigned to you
- 4) A faculty member of the Department where your major interest lies

Students "in Good Standing"

Even if your status in the Faculty is 'in good standing' it is suggested that you seek advice on next year's programme from qualified people in the College. The Discipline Representatives and Faculty Advisors for each Department can answer questions relating to a particular subject area.

FEES

General Information

The fees in this schedule are accurate as of the date of publication and in some cases may differ from those in calendars and brochures which were published at an earlier date. In cases of discrepancy this schedule should be considered the more accurate.

ALL FEES ARE SUBJECT TO CHANGE AT ANY TIME BY APPROVAL OF THE GOVERNING COUNCIL. In the event changes are approved after the publication of this schedule every effort will be made to notify those students affected. However, lack of notification does not absolve a student from paying the appropriate fee.

INCIDENTAL FEES are established by the various campus organizations and reviewed annually by the Campus and Community Affairs Committee of the Governing Council. Incidental fees are shown in the schedule under two headings as outlined below.

FULL-TIME STUDENTS	PART-TIME STUDENTS
E.C.A.R.A. \$25.00	
Health Service 17.00	
Hart House 2.00	
E.C.S.U. 18.00	A.P.U.S. \$5.00
S.A.C. 14.50	Erindale Activities 2.00
TOTAL \$76.50	TOTAL \$7.00

Foreign Students

If you are not a Canadian citizen or landed immigrant you will be charged the higher fee for visa holders unless you can claim exemption as indicated on the Registration Form. Students who can claim exemption under Section 1, "Status in Canada" are:

- Students who are (or are dependents of) a diplomatic or consular official admitted to Canada under clause 10 (c) of the Immigration Act of 1976.
- Students who are dependents of a person admitted to Canada for the purpose of engaging in employment.
- Students who are sponsored and financially assisted by the Canadian International Development Agency or the International Development Research Centre or similar programmes recognized by the government of Canada.
- Students studying under a cultural exchange agreement between the government of Canada or the government of Ontario and another country.
- Students who are holders of a 1979-80 graduate scholarship.

Students who require assistance in completing this section should consult their Registrar's Office.

Financial Aid and Student Awards

For information on scholarships, medals, prizes, bursaries, special awards, government financial assistance and use of awards to pay your fees, please consult the AWARDS BULLETIN that is available in all Registrar's Offices and in the Student Aid Office (Room 211, North Building). Financial Aid Notice Boards are located outside the Student Aid Office and outside the South Building Cafeteria.

Receipts for Income Tax

Tuition Fee Certificates will be issued by the Fees Office in January 1980, but will include only payments made in the 1979 calendar year. If you are unable to pick up your receipt, a stamped, self-addressed envelope should be forwarded to the Fees Office with your request for the receipt to be mailed to you.

NOTE: There will be a charge of \$3.00 for the preparation of duplicate receipts.

How to Complete Section E of Your Registration Form

- Indicate appropriate type of payment.
 - U. of T. Staff must attach an approved "Educational Assistance" form, and pay all Incidental fees.
 - Senior Citizens are not required to pay fees but must still complete the Fees section of their Registration form.
 - Dependents of U. of T. Staff must attach an approved "Application for Waiver of Tuition" form and pay all Incidental fees.
- Course Load should match the courses you have selected or will be selecting at registration. Each A,B,Y course = 1.0; each F,S,H course = 0.5. Use this course load to determine the fee payable. (See Fees Schedule).
- Select either the total payment of initial payment from the SCHEDULE OF FEES. If you select the INITIAL PAYMENT the balance is payable anytime before January 1980 but is subject to a SERVICE CHARGE as described below. IT IS TO YOUR ADVANTAGE TO PAY YOUR FEES IN FULL PRIOR TO REGISTRATION.
- Deferred Payment and Deductions - see instructions below.
- Sign and date the Registration Form. Do not write below the signature line.

Deferred Payment

- OSAP

OSAP recipients who are unable to pay fees from their personal resources can obtain a temporary deferment of fees as follows:

i) If you receive your OSAP Notice of Assessment prior to registration mail a copy of it together with your Registration Form according to the instructions above.

ONCE YOU HAVE RECEIVED YOUR OSAP FUNDS YOU MUST PAY AT LEAST THE INITIAL PAYMENT OF YOUR FEES.

- ii) If you do not receive your OSAP Notice of Assessment prior to registration, you will have to come in person to the Fees Office, with your Registration form, during Registration Week. Special arrangements may be made at that time for you to obtain a temporary deferment of fees.

2. FEES TO BE BILLED TO A THIRD PARTY

If your fees are to be paid by a government agency (such as Vocational and Rehabilitation Services, Department of National Defence, etc.) or by some other agency which requires an invoice from the University indicate the amount to be invoiced in section 3 of the Fees portion of the Registration Form and attach appropriate authorization from the agency. Please return your Registration form as early as possible so that we may send the invoice prior to registration. (You will receive confirmation from the Fees Office that the invoice has been sent.)

Deductions

University Scholarships and Bursaries

Awards paid by the University are automatically credited to your account with the Fees Office. If you wish to apply your award to your fees, indicate the name of the award in section 5. If the amount of the award is less than the minimum payment due, then attach a certified cheque or money order for the difference and mail the form according to the instructions above.

Outside Awards

If you have received an award from outside the University which has been paid to your account with the University, you may apply this award to your fees. Indicate the name of the award in section 5, attach appropriate documentation and mail the form according to the instructions above.

How to Pay Your Fees

Payment must be made in Canadian Funds, by CERTIFIED Cheque or Money Order payable to "The University of Toronto" or by cash. Indicate your name and student number on the back of your cheque or money order.

BY MAIL: Fees payment MUST reach the Fees Office by August 17, 1979
DO NOT SEND CASH BY MAIL

The yellow copy of your Registration form will be receipted and forwarded to your Registrar prior to Registration.

IN PERSON: The Fees Office hours are 10:00 a.m. to 4:30 p.m.
Monday through Friday

Late Fees Room 3091, South Building

Those students given permission to register late (on or after September 10) will be required to pay a penalty of \$10.00 for the first day, and the fee will increase by \$1.00 per day for each additional day, up to a maximum of \$20.00.

Service Charges

All outstanding fees, regardless of the source of payment, are subject to a service charge of 1% per month (18% per annum), calculated from September 15th and first assessed on October 15th.

Withdrawals

If you withdraw or are required to withdraw from the College, refunds are calculated according to the refund schedule below using the effective date reported to the Fees Office by your Registrar, not the date you ceased attending classes.

Course Changes

The following policies apply to course changes:

- If the change results in an INCREASE in the amount of your fees, this increased amount is due immediately and is subject to a service charge as described above.
- If the change results in a DECREASE in fees, the credit will be applied to any outstanding fees charges, or refunded to the student.

Refund Schedule

Date of Course Drop	Course Type					
	A	B	Y	H	F	S
To September 21	100%	100%	100%	100%	100%	100%
Sept. 22 - Oct. 5	75%	100%	75%	75%	75%	100%
Oct. 6 - Nov. 2	50%	100%	50%	50%	50%	100%
Nov. 3 - Jan. 18	NIL	100%	50%	50%	NIL	100%
Jan. 19 - Feb. 1	NIL	75%	50%	50%	NIL	75%
Feb. 2 - Feb. 15	NIL	50%	50%	50%	NIL	50%
Feb. 16 - Feb. 29	NIL	50%	NIL	NIL	NIL	50%

INCIDENTAL FEES

Incidental fees are refunded only upon complete withdrawal from the University and are calculated as follows, according to the effective date of withdrawal as reported by your Registrar to the Fees Office.

100% to October 1st 50% to December 31st THEN NIL

Schedule of Fees

			Non-Exempt Visa Students
Academic fee	- per course	\$142.00	\$300.00
Campus Services	- full time	44.00	44.00
	- part time	-	-
Student Society fees	- full time	32.50	32.50
	- part time	7.00	7.00

Course Load	Total Fee	Minimum First Payment	Total Fee	Minimum First Payment
0.5	78.00	78.00	157.00	157.00
1.0	149.00	92.00	307.00	187.00
1.5	220.00	135.00	457.00	277.00
2.0	291.00	177.00	607.00	367.00
2.5	362.00	220.00	757.00	457.00
3.0	433.00	263.00	907.00	547.00
3.5	504.00	305.00	1057.00	637.00
4.0	644.50	417.00	1276.50	795.00
4.5	715.50	460.00	1426.50	885.00
5.0	786.50	505.00	1576.50	975.00
5.5	857.50	545.00	1726.50	1065.00
6.0	928.50	590.00	1876.50	1155.00
6.5	999.50	635.00	2026.50	1245.00
7.0	1070.50	675.00	2176.50	1335.00

DATES, DEADLINES AND DATA

DEADLINES FOR REGISTRATION

September 7	for A, F, H or Y courses Registration may be permitted after this date, until September 21, but a late registration fee will be charged
January 18	if B or S course only are included in your programme

BEGINNING AND ENDING OF CLASSES

FIRST TERM	September 10 December 7	Classes begin in A, F, H & Y courses Classes end in A & F courses
SECOND TERM	January 7 April 11	Classes begin in B & S courses Classes resume in H & Y courses Classes end in B, H, S & Y courses

DEADLINE FOR ADDING AND DROPPING COURSES

Course Type	Final Date to ADD	Final Date to DROP
A & F	September 21	November 2
H & Y	September 21	February 15
B & S	January 18	February 29

ALL additions and deletions must be made through your Registrar's Office. Courses not deleted by the final dates will remain on your record and may count as failures.

It is important to delete a course officially as soon as you have decided to drop it since fees refunds are calculated according to the date the deletion is reported to the Registrar's Office.

TERM WORK AND EXAMINATIONS

December 7	All term work in A & F courses must be submitted by this date
December 10-21	Final examinations may be held in A & F courses Term tests may be held in H & Y courses
April 11	All term work in B, H, S & Y courses must be submitted by this date
April 21 - May 9	Final examinations may be held in B, H, S & Y courses

DEGREE REQUESTS

September 28	Last date for students who expect to graduate at the Fall Convocation to notify their Registrar
November 30	Fall Convocation - Erindale College
February 22	Last date for students who expect to graduate at the Spring Convocation to notify their Registrar
June 16	First Spring Convocation - Arts & Science

Change of Personal Information

Any change in your marital or immigration status, address or other personal information must be communicated to your Registrar's Office, in writing, as soon as possible.

Maximum Course Load in the Winter Session

1. Full-time students in good standing may take a maximum of six credits per session; those on academic probation are limited to five credits. Part-time students may take a maximum course load of three and one-half credits.
2. Students may not exceed a term course load of six in either the First (September - December) or Second (January - April) term - see page 26 of the Calendar.
3. Students who wish to take more than six full courses should consult their Registrar.

Grades

Every student who is still enrolled in a course after the final date to withdraw will receive a grade for that course, even if he/she stopped attending or failed to write the examination.

If you are not going to complete a course you must notify the Registrar's Office, in writing, before the final date to withdraw. Every year some students obtain a mark of '0' on their transcript because they did not notify the College of their intention to delete a course.

Grades are issued by the Faculty Office and are not obtainable from the Registrar's Office.

Evaluation of Academic Performance and Grade Point Average

These definitions are given on pages 27 - 30 of the Erindale College Calendar

Petitions

Consult your Registrar if anything happens which interferes with your ability to continue or complete your courses or which appears to be contrary to rules, regulations or deadlines.

The University holds you responsible for knowing the rules and regulations printed in the Calendar.

Summer Hours

Erindale College Registrar's Offices will be open during the summer except on statutory holidays.

South Building - Monday through Friday	8:45 am - 4:30 pm
North Building - Monday through Friday	8:45 am - 4:30 pm
Monday and Thursday during summer classes	6:00 pm - 7:00 pm

Withdrawal from University

If you find it necessary to stop attending all classes you must notify your Registrar, in person, before the 'last date to withdraw without academic penalty' as listed in the sessional dates (page 6) in the Calendar. Merely ceasing to attend classes does not constitute withdrawal.

Specialization

Students who intend to follow a programme of study are urged to indicate their intention to the sponsoring Department or Programme Coordinator when they have completed their first four or five courses. Handbooks outlining Specialized Programmes are available from most Departments.

TIMETABLE INFORMATION 1979-80

Late Additions to the Timetable

The following courses will be offered in the evening (Section L6001). Times will be available in the September edition of the Supplement to the Calendar.

ANT203Y	PHYSICAL ANTHROPOLOGY
ECO202Y	MACROECONOMIC THEORY
GER272Y	FILM & LITERATURE OF THE WEIMAR REPUBLIC
MAT132Y	CALCULUS
PSY260F	INTRODUCTION TO LEARNING
PSY324S	AGGRESSION
PSY340Y	ABNORMAL PSYCHOLOGY
PSY341F	PSYCHOPATHOLOGIES OF CHILDHOOD

Calendar Revisions

Revised Course Description

INE303Y - WRITING AND TEACHING

Designed in cooperation with the Faculty of Education and local boards of education, this course is for teachers and prospective teachers who want to know more about the principles and practice of effective writing. In addition to exploring theories of rhetoric and composition, and current research on writing, the course will examine the history and characteristics of the English language and the stages of writing development from children's syntax to sophisticated prose. It will also provide a range of practical exercises and approaches to writing.

Calendar Addenda

Page 13 - List of Faculty for SOCIOLOGY

Add: A. L. Stein, BA, MA, PhD (California)

Page 34 - SANCTIONS

Should read: NOTE: Withdrawal from a course will not preclude proceedings in respect of academic offenses committed in the course, and permission to withdraw may be refused where an academic offense is alleged.

Add: REPORTING
All persons convicted of academic offenses under the Code of Behaviour will have their names included in a report by the Provost to the Academic Affairs Committee.

Page 68 - Information on Commerce Programme

Add: Students wishing to enter or proceed in this programme after obtaining five credits must enrol with the Department of Political Economy at the beginning of each academic year thereafter. A part-time student must enrol with the Department after obtaining five credits, and re-enrol each academic year thereafter either in person or in writing.

TRANSPORTATION AND PARKING

Parking

Combined Permit (Staff only)	\$87.60
Resident Permit	48.00
Full-time/Car Pool Permit (Staff & Students)	48.00
Part-time Permit (Part-time Students)	24.00
Daily fee - per day (7 a.m. to 3 p.m.)	1.00
after 3 p.m.	no charge

NOTE:

- 1970-80 Parking Permits are for sale in the Parking Office, Room 158, North Building effective July 2, 1979.
- During Registration week (September 4 - 7) there will be no charge for parking on campus. During this week permits will be sold daily in the Parking Office from 9:00 a.m. to 4:30 p.m. and in the Meeting Place, South Building from 6:00 to 8:00 p.m.
- Cash or personal cheques will be accepted.
- Part-time students must produce their Registration Form or Student Card to be eligible to purchase a part-time permit. Permits will NOT be sold without proof of eligibility.
- All students are reminded to have vehicle information, especially licence plate numbers, available when applying for permits.

Bus Services 1979-80

Mississauga Transit (All Year)

The regular service of the Mississauga Transit is available in front of the South Building. Buses leave at frequent intervals and connect with Islington Subway (Route #1) on the Toronto Transit or Clarkson or Port Credit "GO" stations (Route #25 from Sheridan Mall).

Fares are 50¢ per trip - exact change required.
STUDENT TICKETS ARE NO LONGER AVAILABLE.

Inter-campus Bus Services between Erindale and St. George Campus (September to May only)

This service exists for staff and students who are required to take classes, give lectures, etc. on both campuses. Fares will be announced at a later date.

WESTBOUND - Depart Medical Sciences Building

A.M. - 8:00, 9:15, 10:15, 11:15

P.M. - 12:15, 1:15, 2:15, 3:15, 4:15, 5:30, 6:15

NOTE: The 8:00 a.m. bus will stop at Applewood Village Plaza (Miracle Food Store), to pick up passengers.

EASTBOUND

A.M. - 7:15, 8:00, 9:15, 10:15, 11:15

P.M. - 12:15, 1:15, 2:15, 3:15, 4:15, 5:15

NOTE: The 5:15 p.m. bus will stop at South Service Road across from Applewood Village Plaza (pedestrian bridge) to drop-off passengers.

The underlined times indicate trips during Registration Week. These and all other trips shown will operate effective September 10, 1979.

Malton, Brampton/Bramalea, Streetsville Commuter Service (September to May only - Monday through Friday)

To Erindale College	A.M.
Morning Star & Goreway (N.E. corner)	7:40
Bramalea City Centre (Eaton's W. Entrance)	7:55
Highways #7 and #10	8:05
Shoppers' World Plaza (Simpsons N.W. corner)	8:10
Centre Plaza (Streetsville)	8:25
Erindale College (North Building)	8:35

From Erindale College

Erindale College (North Building)	5:05
Centre Plaza (Streetsville)	5:15
Shoppers' World Plaza	5:30
Highways #7 and #10	5:35
Bramalea City Centre	5:45
Morning Star & Goreway	6:00

NOTE: Buses will stop on request at Municipal Bus Stops.

DISCIPLINE REPRESENTATIVES AND FACULTY ADVISORS

Anthropology	* Prof. R. Vanderburgh	828-5289	257E
Astronomy	* Prof. J.R. Percy	828-5356	4061
Biology			
Botany	* Prof. P.A. Horgen	828-5363	3038
	Prof. W.R. Cummins	828-5362	3042
Microbiology	Prof. A. Guha	828-5364	3047
Zoology	* Prof. W.G. Sprules	828-5366	3050
	Prof. G.K. Morris	828-5306	2023
Chemistry	* Prof. A.J. Poe	828-5355	4056
	Prof. I.W.J. Still	828-5354	4049
Classics	* Prof. C.I. Rubincam	828-5371	2338
Commerce	* Prof. L.J. Brooks	828-5309	37
Computer Science	* Prof. E.C.R. Hehner	828-5359	4062
	Prof. C. Rackoff	828-5437	4041
Drama	Prof. J. Astington	828-5349	Theatre
Economics	* Prof. M.J. Hare	828-5375	60
English	* Prof. 8. Corman	828-5273	293
Earth and Planetary Sciences	* Prof. G.W. Pearce	828-5419	3006
	Prof. D.R. Kobluk	828-5363	3002
	Prof. H.C. Hallis	828-5419	3005
	Prof. R.M. Stesky	828-5363	3003
Fine Art	* Prof. L. Eleen	828-5285	131
French	* Prof. M.-P. Dacretet	828-5373	200
German	* Prof. C. Saas	828-5289	233A
Geography	* Prof. R.R. White	828-5299	3125
	Prof. T.F. McIlwraith	828-5299	3108
	Prof. D.S. Munro	828-5298	3105
History	* Prof. C. La Vigna	828-5285	205
Interdisciplinary Studies	* Prof. R.W. Van Fossen	828-5215	229
	Prof. M. Northey (INE203Y)	828-5349	171
	Prof. J. Dutka (INE401Y, 402Y)	828-5262	298A
Italian	* Prof. G. Pugliese	828-5276	2368
Linguistics	* Prof. R.W. Van Fossen	828-5215	229
Mathematics	* Prof. J.E. Lebel	828-5359	4005
	(APM and MAT)		
Philosophy	Prof. W.J. Huggett	828-5349	276
Physics	* Prof. S.S.M. Wong	828-5353	4043
Political Science	* Prof. J. Sarros	828-5229	68
Psychology	* Prof. L. Kraines	828-5369	3057
	Prof. R. Abramovitch	828-5367	2036A
	Prof. A. Fleming	828-5415	2036
Religious Studies	* Prof. L.J. Elmer	828-5275	233C
Slavic L & L	* Prof. K. Lantz	828-5284	289A
Sociology	* Prof. W.K. Kalbach	828-5315	2097
	Prof. A. Stein (Communications)	828-5395	2091
Spanish	* Prof. E.G. Neglia	828-5284	236
Statistics	* Prof. K.W. Ng	828-5324	4059C
Survey Science	* Prof. G. Gracie	828-5299	3113

* Discipline Representative

COLLEGE DEPARTMENTS AND SERVICES

	Room	Building	Telephone
Art Gallery	2123	South	828-5214
Association of Graduate Students & Assistants	2016	South	828-5304
Bookstore	1129	South	828-5246
Campus Services	158M	North	828-5221
Career Counselling & Placement	10	Crossroads	828-5249
Community & Secondary School Liaison	3094	South	828-5217
Computer Services	2039	South	828-5339
Erindale College Athletic & Recreation Association	1114	South	828-5422
Erindale College Student Union	10	Crossroads	828-5249
Erindale Part-Time Undergraduate Students	137	North	828-5422
Fees Office/Cashier	3091	South	828-5202
Financial Aid & Student Awards	211	North	828-5234
Food Services	0138	South	828-5245
Health Services	1123	South	828-5255
Language Laboratories	163	North	828-5346
Library - Information	2105	South	828-5237
Library - Circulation	2105	South	828-5236
Lost/Found Property	2117	South	828-5200
Medium 11	Margeson Hut		828-5260
Parking & Transportation	158	North	828-5254
Physical Plant Services	3095	South	828-5204
Superintendent	158G	North	828-5250
Post Office	1132	South	828-5248
Publicity & College Events	3094	South	828-5214
Radio Erindale	Colman Place		828-5411
Room Reservations			
- Classrooms	3135	South	828-5213
- Other Rooms	158	North	828-5251
Security Office	2117	South	828-5200
Student Housing	Colman Place		828-5286
Technical Services	3094E	South	828-5240
Audio/Visual	3062	South	828-5242

WINTER SESSION 1979-80 TIMETABLE

COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR	COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR
ANTHROPOLOGY						PLANT FORM & FUNCT					
ANT 100Y	INTRO ANTHROPOLOGY	L0101 TR3			Melbye & Vanderburgh	BIO 250Y	PLANT FORM & FUNCT	L0101 TR101	MW12 R2-5		Thaler & Staff
		L0001 R6:30-8:30 PM				BIO 251Y	ANIMAL FORM & FUNCT	L0001 R7-9 PM			Reiser & Morris
		L0101 F9		L	Davies			L0101 M2-5		L	
		L0201 F10		L		BIO 270Y	BIOLOGY OF PROTISTA	L0101 TR101	TU-10 PM		Knoechel, Ng & Staff
		L0301 F11		L				L0101 F10-1		L	
		L0401 F12		L		BIO 320Y	PLANT PHYSIOLOGY	L0101 TBA			Cummins
		L0501 F1		L				L0101 M2-5			
		L0601 F2		L		BIO 321Y	INTRO ANIMAL PHYSIOLOGY	L0101 WF10			Dudek & Staff
		L0001 R6-6:30 PM						L0101 W2-5		L	
		L0202 R8:30-9:00 PM						L0201 R2-5		L	
ANT 201Y	NORTH AM PREHISTORY	L0001 T6:30-8:30 PM				BIO 322Y	ANIM BEHAV 1: SOC FAC	L0101 TR12			Morris
ANT 203Y	PHYSICAL ANTHRO	L0101 TR2			Signon			L0101 T2-5			
		L0101 M9		L		BIO 323Y	ANIM BEHAV 2: PHN FAC	L0101 TR12			Pointing
		L0201 M10		L				L0101 T2-5			
		L0301 M11		L		BIO 330Y	PLANT ECOLOGY	L0101 M10			Haycock & Staff
		L0401 M12		L				L0101 W10			
		L0501 M1		L		BIO 331Y	FRESHWATER BIOLOGY	L0101 MW12			Knoechel & Staff
		L0601 M2		L				L0101 M2-5			
ANT 204Y	SOCIAL & CULTURAL	L0101 MW9			Vanderburgh	BIO 334Y	MYCOLOGY: LOWER FUNGI	L0101 TR1			Staff
		L0101 M1		L				L0101 T2-5			
		L0201 M2		L		BIO 340Y	GENETICS	L0101 MW1			Fillion & Gibo
ANT 207Y	ETHNOGRAPHIC METHODS	L0101 R3-5			Davies			L0101 M2-5		L	
ANT 208Y	RELIGION IN CULTURE	L0101 MW11			Vanderburgh			L0101 W2-5		L	
		L0101 M3		L		BIO 351Y	INVERTEBRATE FORM	L0101 R2-5			Pointing & Morris
		L0201 M4		L				L0101 TR10			O'Day & Cummins
ANT 212Y	ANTHROPOLOGY OF ART	L0001 W6:30-8:30 PM			Reinhardt	BIO 352Y	DEVELOPMENTAL BIO	L0101 TR10			
ANT 226Y	OLD WORLD PREHISTORY	L0101 MW10						L0101 T2-5			
ANT 228Y	ARCHAEOLOG FIELDWORK	L0001 M6:30-8:30 PM			Finlayson	BIO 354Y	VERT FORM & FUNCTION	L0101 TR9			Reiser
ANT 229Y	ARCH LAB ANALYSIS	L0001 M6:30-8:30 PM						L0101 TBA			
ANT 231H	LAB MATH IN PHYS ANT	L0101 T3-5			Signon	BIO 355Y	TAX VASCULAR PLANTS	L0101 TBA			Ball
ANT 241Y	INDIANS OF NORTH AM	L0101 TR1			Mohr			L0101 TBA			
ANT 242Y	MODERN CULTURES CAN	L0101 TR12			Davies	BIO 356Y	VERTEBRATE EVOLUTION	L0101 TR9			Reiser
ANT 305Y	TECHNOLOGY	L0101 M1-4			Reinhardt			L0101 R2-5			
ANT 324Y	ARCH INTERPRETATION	L0101 TR9			Mohr	BIO 360Y	BIOGRAPHICS I	L0101 WF9			Sprules
ANT 327Y	ORIGINS AGRICULTURE	L0101 TR9			Mohr			L0101 W2-5		L	
ANT 328Y	ADV ARCH FIELDWORK	L0001 M6:30-8:30 PM			Finlayson			L0201 F2-5		L	
ANT 334Y	SKELETAL BIO PREHIST	L0001 R6:30-8:30 PM			Melbye	BIO 361Y	BIOGRAPHICS II	L0101 WF9			Sprules
ANT 336Y	HUMAN HEREDITY	L0101 R10-12			Melbye			L0101 F2-5			
ANT 338Y	PRIMATE BIOLOGY	L0101 WF7-9				BIO 370Y	MICROBIOLOGY	L0101 MW12			Guha & Ng
ANT 339Y	HUMAN ADAPTABILITY	L0101 R10-12			Signon			L0101 T2-5		L	
ANT 397Y	INDEPENDENT STUDY	L0101 TBA		D	Staff			L0201 W2-5		L	
ANT 397H	INDEPENDENT STUDY	L0101 TBA		D	Staff	BIO 371Y	VIROLOGY	L0101 M1-3			Mahdy
ANT 397S	INDEPENDENT STUDY	L0101 TBA		D	Staff			L0101 M3-6			
ANT 398Y	INDEPENDENT READING	L0101 TBA		D	Staff	BIO 421Y	AD ANIMAL PHYSIOLOGY	L0101 WF11			Dudek & Staff
ANT 399Y	INDEPENDENT RESEARCH	L0101 TBA		D	Staff			L0101 TBA			
ANT 432Y	SPEC PROBS PHYS ANTH	L0101 TBA		D	Staff	BIO 424Y	BIO SENSORY SYSTEMS	L0201 M7-10 PM			Dudek
ANT 433Y	PALAEOPHONOGRAPHY	L0101 T10-12			Melbye			L0001 W7			
ANT 434Y	PALAEOPATHOLOGY	L0101 T10-12			Melbye	BIO 431Y	POPULATION ECOLOGY	L0101 TR11			Staff
ANT 499Y	ADV INDEPENDENT RESR	L0101 TBA		D	Staff			L0101 TBA			
APPLIED MATHEMATICS						BIO 444H	CYTOGENETICS	L0101 F12			Fillion
		L0101 TR12						L0101 TBA			
APH 251Y	APPLIED MAT 1	L0101 TR101			Lebel	BIO 455Y	CUR TOPICS DEV BIOL	L0101 R2-5			O'Day
APH 311F	PARTIAL DIFF EQUAT	L0101 TR12				BIO 456Y	BIOSYSTEMATICS	L0101 TBA			Ball
		L0101 TBA						L0101 TBA			
APH 351Y	APPLIED MAT 11	L0101 TR12				BIO 460Y	MICROBIAL ECOLOGY	L0101 M12-2			Ng
		L0101 TBA						L0101 T2-5			
ASTRONOMY						BIO 470Y	MOLECULAR BIOLOGY	L0101 T11-1			Guha
		L0101 TR11						L0101 TBA			
AST 100Y	INTRO TO ASTRONOMY	L0101 MR2				BIO 480H	BIOLOGY RESEARCH PROJ 1	L0101 TBA			Staff
		L0101 T12			Lester			L0101 TBA			Staff
		L0201 T2				JPB 359Y	SOCIOBIOLOGY	L0101 TR10			Alloway/Gibo
AST 120Y	ASTRON ASTROPHY SUR	L0101 TR11			Lester			L0101 W2-5			
		L0101 M1				CHEMISTRY					
		L0201 M3				CHM 110Y	GENERAL CHEMISTRY	L0101 MW11			Robinson/J.C. Po
AST 200S	APPREC OF UNIVERSE	L0001 R7-9 PM			Percy			L0201 MW11		L	
AST 220Y	LIFE ON OTHER WORLDS	L0101 MF1			Percy			L0101 M9-12		L	
AST 425H	ASTRONOMY RESEARCH	L0101 TBA		D	Staff			L0101 M9-12		L	
								L0101 T9-12		L	
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COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR	COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR
CHM 222T	PHYS CHEM LIFE SCI	L0101	MF10		Reed	CSC 258F	COMPUTER ORGANIZATN	L0101 T0101	MW12 W4		Hegner
CHM 238S	INTRO INORGANIC CHEM	L0101 P0101 P0201 P0301 P0401	MR1 T1-5 W1-5	L L L L	Ozin	CSC 336S	NUMERICAL METHODS	L0101 T0101	MW2 M3		Serner
CHM 240T	INTRO ORGANIC CHEM	L0101 P0101 P0201 P0301 P0401	TRF11 M1-5 T1-5 W1-5 R1-5	L L L L	Winnik	CSC 340T	APPLIED ALGEBRA	L0101 T0101	MT2 M3		Rackoff
CHM 241Y	ORGANIC CHEMISTRY I	L0101	TRF11		Winnik	CSC 356F	TOPICS D.P.SINF STRU	L0101 T0101	MW11 W3		Graham
CHM 241Y	ORGANIC CHEMISTRY I	P0101 P0201 P0301 P0401	M1-5 T1-5 W1-5 R1-5	L L L L		CSC 368S	LANGUAGE PROCESSORS	L0101 T0101	MW10 W3		Hegner
CHM 315F	METH ANALYTICAL CHEM	L0101	M10 P9		Vander Voet	CSC 436S	COMPUTABILITY & LOGIC	L0101	MWF12		Rackoff
CHM 316S	INDUSTRIAL ANALYSIS	L0101	M10 P9 P0101		Vander Voet	CSC 492F	IMPLEMENTATION PROJ	L0101	TBA		Staff
CHM 320Y	PHYSICAL CHEMISTRY	L0101 T0101	MW12 W1-5		Deckers/Aroca	CSC 492H	IMPLEMENTATION PROJ	L0101	TBA		Staff
CHM 321Y	PHYSICAL CHEMISTRY	L0101 T0101	MW12 W1-5		Deckers/Aroca	CSC 492S	IMPLEMENTATION PROJ	L0101	TBA		Staff
CHM 330Y	ADV INORGANIC CHEM	L0101 P0101 P0201	TR11 M1-5 T1-5	L L	Ozin/A. Po	CSC 493F	EXPOSITORY WORK	L0101	TBA		Staff
CHM 340Y	ADV ORGANIC CHEM	L0101 P0101 P0201 T0101	TR10 W1-5 R1-5 W9		Still	CSC 493H	EXPOSITORY WORK	L0101	TBA		Staff
CHM 347S	ORGANIC COMPOUNDS	L0101 T0101	T9 F11 R9		Winnik	CSC 493S	EXPOSITORY WORK	L0101	TBA		Staff
CHM 360Y	BIOLOGICAL CHEMISTRY	L0001	TRC-7:30 PM		Reed	DRAMA					
CHM 371H	LAB IN BIOCHEMISTRY	L0101	F1-5		Reed	DRA 110Y	HIST OF WESTERN THEA	L0101	MWF1		Astington
CHM 410Y	TOPICS IN CHEMISTRY	L0101	M2-5 W2-5		Staff	DRA 200Y	ACTING 1	L0101	MW2-4		Astington
CHM 411H	TOPICS IN CHEMISTRY	L0101	TBA		Staff	DRA 300Y	ACTING II	L0101	TR2-4		TBA
CHM 412H	TOPICS IN CHEMISTRY	L0101	TBA		Staff	ECONOMICS					
CHM 415Y	DISSERT ON LIT RESEA	L0101	TBA		Staff	ECO 100Y	INTRO TO ECONOMICS	L0101 L0201 L0301 L0401 L0501	MWF10 MWF11 MWF12 TR3-4:30 W3-5 F3	L L L L L	
CHM 419Y	INTRO RES IN CHEM	L0101	TBA		Staff	ECO 100Y	INTRO TO ECONOMICS	L0101 L0201 L0301 L0401 L0501	MWF10 MWF11 MWF12 TR3-4:30 W3-5 F3	L L L L L	
COMMERCE						ECO 200Y	MICROECONOMIC THEORY	L0101 L0201 L0301 L0401 L0501	MW9 MW2 TR9 TR11 W7-9:30 PM	L L L L L	
BALLOTING PROCEDURE FOR ASTERISKED (*) COMMERCE COURSES.						ECO 202Y	MAGROECON THEORY	L0101 L0201 L0301 L0401	MW12 MW11 TR10 TR2	L L L L	
All Commerce courses except COM100Y must be balloted before Wednesday, July 11, 1979. Ballot forms and instructions are available from the Academic Secretary, Crossroads Building. Lists of successful candidates will be posted on the Departmental Bulletin board, September 4, 1979.						ECO 203Y	MOD EUROPEAN ECO HIS	L0101	TBA		Eddie
COM 100Y	FINANCIAL ACCOUNTING	L0101 L0201 L0301 L0401 L0501 L0601 L0701 L0801 L0901 L1001 L1101 L1201	MW9 MWF10 W11 T2-4 W10-12 W4-6:30 PM T7-9:30 PM T7-9:30 PM TBA TBA TBA TBA TBA	L L L L L L L L L L L L	Longworth La Hay La Hay Kantor Longworth Clarke TBA TBA TBA TBA TBA TBA	ECO 207Y	QUANTITATIVE METHODS	L0101	TR12-2		Hsiao
COM 102Y	FINANCIAL ACCOUNTING	L0101 L0201 L0301 L0401 L0501 L0601 L0701 L0801 L0901 L1001 L1101 L1201	MW9 MWF10 W11 T2-4 W10-12 W4-6:30 PM T7-9:30 PM T7-9:30 PM TBA TBA TBA TBA TBA	L L L L L L L L L L L L	Longworth La Hay La Hay Kantor Longworth Clarke TBA TBA TBA TBA TBA TBA	ECO 211Y	N AMER ECO HIS & DEV	L0101	M3-5		Rofenstein/Watkins
COM 202Y	ACCOUNTING	L0101	T4-6:30	*	Bigelow	ECO 212Y	INDUS ORG & PUB POLY	L0101	MW10		Spiro
COM 207Y	MANAGEMENT ACCOUNTING	L0101 L0201 L0301 L0401 L0501	M4-6 T4-6 F9-11 T7-9 PM	L* L* L* L*	Scott Clarke Watman Brooks	ECO 220Y	ECO ANALYSIS OF LAW	L0101	R2-4		Rea
COM 224S	MANAGEMENT ACCT II	L0001	T7-9 PM	*	TBA	ECO 322Y	HIS ECON THOUGHT	L0101	F10-12		Newman
COM 300Y	LEGAL ENVIRNT OF BUS	L0101 L0201	T9-11 R3-5	L* L*	Carruthers Stranmann	ECO 324Y	ECONOMIC DEVELOPMENT	L0101	M3-5		Hate
COM 320Y	FIN ACCT THEO POLICY	L0101 L0201 L0301	MW2 TR11 T7-9 PM	L* L* L*	Longworth Brooks Salch	ECO 325F	ADV ECO THEORY-MACRO	L0101	MW1		Newman
COM 323Y	INTRO TO PUB ADMIN	L0101 T0101	TR12 TBA	L	Patrick	ECO 326S	ADV ECO THEORY-MICRO	L0101	MW1		Fuss
COM 331Y	FINANCE	L0101	T2-5	L*	Johnson	ECO 327Y	ECONOMETRICS	L0101	MW12		Chan/Hsiao
COM 337Y	BUSINESS FINANCE	L0101 L0201	M2-4 R4-6	L* L*	Thornton Yagill	ECO 328Y	INTERNATNL ECO & POL	L0101	MW9		Floyd
COM 400Y	MARKETING	L0101 L0102	W1-3 W1-3	*		ECO 333Y	URBAN ECONOMICS	L0101	R10-12		Denny
COM 420Y	ACC LIT & RESEARCH	L0101	T10-12	L*		ECO 336Y	CAN PUBLIC FINANCE	L0101	TR1		Lands
COM 422Y	QUANT SYSTEMS ANALYS	L0101	T2-4	L*	Dooley	ECO 361F	ECO & LABOUR MARKET	L0101	T10-12		Reid
COM 423Y	CAN BUS TAXATION	L0001	T7-9 PM	L*	Strain	ECO 362S	LAB ECON & LAB RELAT	L0101	T10-12		Reid
COM 428F	MANAGEMENT CONTROL	L0101	W3-5	L*	Galvin	ECO 424Y	SR SEM IN ECO ANALYS	L0101	TBA		
COM 441F	THEORY ADM BEHAV 1	L0101	M1-3	L*	TBA	ENGLISH					
COM 442S	THEORY ADM BEHAV II	L0101	M1-3	L*	TBA	ENG 100B	20TH CENTURY LIT	L0101	MWF2-4		
COM 450Y	MANAC POL & STRATEGY	L0101	W10-12	*	TBA	ENG 128Y	20TH CENTURY LIT	L0101 L0201 L0301 L0401 L0501	MW9 MW10 MW11 MW12 R7-10 PM	L L L L L	Cripps Hill Kreiswirth McLeod Teleky
COMPUTER SCIENCE						ENG 112Y	MAJ BRITISH WRITERS	L0101 L0201	MWF10 MW11 F11 MW1 F1	L L L L L	Goody Lynch Sullivan
CSC 118S	PROGRAMMING APPLICTN	L0101 T0101	WF12 M12		TBA	ENG 165Y	FORMS & APPROACHES	L0101 L0201 L0301	MWF9 MWF10 MWF11	L L L	Kordecki Clark/Mailer McLeod
CSC 139F	INTRO TO PROGRAMMING	L0101 L0001 T0101 T0201 T0301 T0401 T0501	MF12 M5-8 PM W1-3 W3-5 F1-3 R3-5 M8-10 PM	L L L L L L	Rackoff TBA	ENG 206Y	ENG RENAISSANCE LIT	L0001	W7-10 PM		McLeod
CSC 139S	INTRO TO PROGRAMMING	L0101 T0101 T0201	MW12 F11-1 F12-2		Serner	ENG 207Y	19TH CENT ENG LIT	L0101	MWF4		Kreiswirth
CSC 149F	PROGRAM TECH & STYLE	L0101 T0101	MW12 F12-2		Serner	ENC 212Y	SHAKESPEARE	L0101 L0201	MWF1 MWF2		Lynch Levene
CSC 150S	COMPUTER APPLICATIONS	L0101 L0001 T0101 T0201 T0301 T0401	MW12 W6-8 PM R3 F1 F2 W6		Hegner TBA	ENC 250Y	AMERICAN LITERATURE	L0101 T0101 T0201	MW9 F9 F9		Sullivan
CSC 228S	PROC FOR DATA PROC	L0101 T0101	MW11 W4		Graham	ENC 252Y	CANADIAN LITERATURE	L0101 L0201	MWF11 T10-1		Sullivan Levene
CSC 240F	PROGRAMMING LANGUAGE	L0101 T0101	MW10 W3		Serner	ENC 254S	CANADIAN DRAMA	L0101	MWF11		Astington
						ENC 259F	CHILDREN'S LIT	L0101	MWF11		Dutka
						ENC 262F	THE DETECTIVE NOVEL	L0101 T0101 T0102	T2-4 T4 T4		Skvorecky
						ENC 263S	SCIENCE FICTION	L0101 T0101 T0102	T2-4 T4 T4		Skvorecky
						ENC 302Y	16TH C PROSE & POETRY	L0101	MWF10		Astington/Dutka
						ENC 306Y	POETRY, PROSE & DRAMA	L0101 T0101 T0102	MW2 F2 T2		Deluca
						ENC 308Y	ROMANTIC POETRY	L0101	MWF11		Deluca
						ENC 312Y	CHAUCER	L0101	MWF3		Dutka
						ENC 319Y	MAJ AM AUTHORS 1900	L0101	MWF3		Lynch
						ENC 322Y	FICTION BEFORE 1832	L0101	MWF1		Goody
						ENC 324Y	FICTION, 1832-1900	L0001	M7-10 PM		Hill
						ENC 328Y	FICTION, 1900-1950	L0001	T7-10 PM		Skvorecky
						ENC 338Y	MODERN DRAMA	L0101	R10-1		Blackstone
						ENC 354Y	MOD CANADIAN POETRY	L0101	MWF10		Levene

COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR	COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR
ENG 356Y	MODERN CDN FICTION	L0101	MWF2		Rili	FRE 171Y	LANGUAGE PRACTICE I	L0101 L0201 L0301 P0101 P0201 P0301	MWF3 MWF11 TFP9 TBA TBA TBA	L D L D L D	TBA Feral Trott
ENG 390Y	INDIVIDUAL STUDIES	L0101	TBA		Staff						
ENG 391Y	INDIVIDUAL STUDIES	L0101	TBA		Staff						
ENG 419Y	STUDIES 20 CENT LIT	L0101	M11-1		Adamowski						
ENG 466Y	COMPREHENSIVE EXAM	L0101	TBA		Staff	FRE 220Y	LIT OF CLASSICISM	L0101	TR12		Trott
ENG 467Y	LIT THEORY & PRAC	L0101	MWE1		Corman	FRE 230Y	LIT OF FRENCH CANADA	L0101	MW12		Feral
ENG 469Y	SENIOR ESSAY	L0101	TBA		Staff	FRE 261Y	PRACTICAL FRENCH II	L0101	MWF1		Legall
						FRE 271Y	LANGUAGE PRACTICE II	L0101 L0201 P0101 P0201	MWF11 MWF1 TBA TBA	L L	Swallow TBA
EARTH & PLANETARY SCIENCE											
EPS 100F	THE RESTLESS EARTH	L0101 T0101	MR9 T11		Pearce						
EPS 110S	MAN & THE EARTH	L0101 T0101 T0201	TR11 M10 M5		Halls	FRE 272Y	STRUC OF MODERN FRE	L0101	T1-3		Ducrozet
EPS 115S	LIFE & THE OCEANS	L0101	TR3		Kobluk	FRE 354F	DRAMA FROM 1900-1950	L0101	T10-12		Feral
EPS 119S	ELEMENTARY MINEROLOG	L0101	W1-3		Gorman	FRE 361Y	PRACTICAL FRENCH III	L0101	MWF11		Weinberg
EPS 120Y	INTRO EARTH & PLANET	L0101 P0101 P0201	MR9 R2-5 R2-5	L L	Pearce (Fall) TBA (Spring)	FRE 364Y	PROSE FICT 1800-1900	L0101	M2-4		Weinberg
EPS 124H	GEOLOGY LAB	L0101 L0201	R2-5 R2-5			FRE 366Y	PROSE FICT 1900-1950	L0101	R2-4		Cloutier
EPS 220Y	MINERALOGY & PETROGR	L0101 P0101	W12-2 W2-5		Gorman (Fall) Schutte (Spring)	FRE 371Y	LANG PRACTICE III	L0101 P0101 P0201	MWF11 TBA TBA		Ducrozet
EPS 225Y	STRATIGRAPHY & PALEO	L0101 P0101	TR12 M2-5		Heaton (Fall) Kobluk (Spring)	FRE 375Y	COMPAR STYLISTICS	L0101	W2-4		Ducrozet
EPS 235Y	PHYSGCHM-EARTHPLEAN	L0101 P0101 T0101	M12 W9 R2-4 TBA		Pearce	FRE 423S	CONTEMPORARY THEATRE	L0101	T10-12		Feral
EPS 322F	STRUCTURAL GEOLOGY 1	L0101 P0101	MR10 R2-5		Steaky	FRE 424S	CONTEMPORARY NOVEL	L0101	R10-12		Cloutier
EPS 330F	PHASE DIAGRAMS	L0101 T0101	MR11 F12		Campbell	FRE 475Y	PRACTICAL TRANSLATN	L0101	W2 F12		Weinberg
EPS 332S	STRUCTURAL GEOLOGY 2	L0101 P0101	MR10 R2-5		Steaky						
EPS 334F	ADV PHY OF THE EARTH	L0101 T0101	MW9 F11		Dunlop	FRE 490Y	SENIOR ESSAY	L0101	TBA	*	
EPS 337F	EXPLORATN GEOPHYS I	L0101	TBA	L	Halls	FRE 491H	INDEPENDENT STUDY	L0101	TBA	*	
EPS 338S	EXPLORATN GEOPHYS II	L0101	TBA	L	Halls						
EPS 345S	SEDIMENTOLOGY	L0101 P0101	T11 R11 R2-5		Heaton	GERMAN					
EPS 365F	MARINE GEOLOGY	L0101 T0101	MW12 R9		Steaky	GER 100Y	INTRODUCTORY GERMAN	L0101	MTWRF10		Little/Bielert
EPS 370F	PRINC PALEOBIOLOGY	L0101 P0101	M1 W11 W2-5		Kobluk	GER 101S	INTRO GER: CONTINUAT	L0101	MTWRF10		Little/Bielert
FINE ART - HISTORY						GER 105Y	READING GERMAN I	L0101	MWF11		TBA
FAH 101Y	ANCIENT ART	L6001	W7-9 PM		Rubincan	GER 110Y	LANGUAGE PRACTICE I	L0101	MTWRF11		Bielert
FAH 102Y	MEDIAEVAL ART & ARCH	L6001 T6001	R7-9 PM TBA		Eleen	GER 120Y	MODERN GERMAN LIT	L0101	M1-3 W1		Saas
FAH 200Y	EUROPE ART 1400-1750	L0101 T0101	M2-4 TBA		Martone	GER 130Y	GER LIT & LANG PRACT	L0101	W5-8		TBA
FAH 210Y	EUR-ART NEOCLAS-1940	L0101	W2-4		Welsh	GER 200Y	INTERMEDIATE GERMAN	L0101	MWF11 W5-6:30		Bielert, Little, Saas
FAH 310Y	PAINTING&SCULP CANCUS	L0101	M12 T10-12		Welsh	GER 203Y	INTERMEDIATE GERMAN	L0101	TBA		
FAH 310F	VAN GOGH	L0101	F2-4		Welsh	GER 210Y	LANGUAGE PRACTICE II	L0101	MWF1		Bielert
FAH 322S	CUBISM	L0101	F2-4		Welsh	GER 230Y	19TH CENT LANG PRACT	L0101	W5-8		Little
FAH 326Y	ITA MEDIAEVAL ART	L0101	M2-4		Eleen	GER 272Y	FILM ALIT WEIMAR REP	L0101	TBA		Bielert
FAH 330Y	RAFAEL&MICHELANGELO	L0101	M10-12		Martone	GER 310Y	LANGUAGE PRAC III	L0101	MWF2		Bielert
FAH 332S	BAROQUE PAINTING	L0101	W10-12		Martone	GER 341Y	POST WWII GERMAN LIT	L0101	TBA		
FAH 335F	ARCHITECTURE 15-17C	L0101	W10-12		Martone	GER 410Y	LANGUAGE PRACTICE IV	L0101	TBA W5-7		Bielert
FINE ART - STUDIO at Sheridan College						GER 422Y	CONTEM LIT 1945-PRES	L0101	MWF12		Little
FAS 143H	DRAWING 1	L0101 L0201 L0301	T2-5 R9-12 R2-5	L L L		GER 435Y	BISS, MANN, KAPPA	L0101	TBA M5-7		Saas
FAS 145H	PAINTING I	L0101 L0201 L0301	T9-12 T2-5 R2-5	L L L		GEOGRAPHY					
FAS 146F	DESIGN I	L0101 L0201 L0301	T9-12 R9-12 R9-12	L L L		BALLOTTING PROCEDURE FOR ASTERISKED (*) GEOGRAPHY COURSES.					
FAS 147H	PHOTOGRAPHY I	L0101 L0201 L0301	T9-12 T2-5 R2-5	L L L		All students wishing to enrol in GGR379P must obtain a ballot form from the Academic Secretary, Room 3106, South Building. Ballot forms must be signed by Professor N. Hardy by Friday, July 20, 1979.					
FAS 244H	PRINTMAKING I	L0101 L0201	T9-12 T2-5	L L		GGR 100Y	INTRO PHYSICAL GGR	L0101 T0101 T0201 T0301 T0401 T0402 T0501 T0601 T0701	MW9 M10-12 M1-3 M2-5 W10-12 W2-4		Munro
FAS 245H	DRAWING & PAINTING 2	L0101 L0201	T9-12 R2-5	L L		GGR 131Y	INTRO TO HUMAN GEOGR	L0101 T0101 T0201 T0301 T0401 T0402 T0501 T0601 T0701	TR9 T11-1 T1-3 T1-3 W11-1 W1-3 W1-3 W3-5 R11-1 R1-3		Houston/Goldsworth
FAS 246H	DESIGN II	L0101 L0201	T2-5 R2-5	L L		GGR 200F	PLEISTOCENE	L0101	TBA		TBA
FAS 247H	PHOTOGRAPHY II	L0101	R9-12	L		GGR 202F	STATISTICS	L0101 L0201 L0301 T0101 T0201	MW9 MW12 W7-9 PM TBA TBA		
FAS 248H	3-D DESIGN	L6001	W7-10 PM	L		GGR 206F	HYDROLOGY	L0101	TBA		TBA
FAS 344H	SCULPTURE A CERAMICS	L6001	W7-10 PM	L		GGR 207S	AERIAL PHOTO INTERPR	L0101	MW11		Hardy
FAS 345H	SCULPTURE B METAL	L6001	W7-10 PM	L		GGR 212S	APPLICATNS OF STATIS	L0101 L0301 T0101	MW12 W7-9 PM TBA		
FAS 346H	DRAWING & PAINTING 3	L0101	T2-5	L		GGR 214S	CLIMATOLOGY	L0101 P0101	MW10 TBA		Munro
FAS 349H	PRINTMAKING II	L0101	R9-12	L		GGR 233Y	ENERGY RESOURCE MNGT	L0101	TBA		TBA
FRENCH						GGR 245Y	URBAN CANADA	L0101	TR11		Goldsworth
FRE 101Y	INTROD FRENCH I	L0101 L0201 P0101	MWF9 MWF1 TBA	L D L D	Legall	GGR 253Y	CULTURAL GEOGRAPHY	L0101 T0101	TR9 TBA		McIlwraith
FRE 121Y	INTROD FRENCH II	L0101 L0201 P0101	MWF10 MWF1 TBA	L D L D	Swallow TBA	GGR 280F	CARTOGRAPHY	L0101	MW11		Houston
FRE 140Y	STUDIES IN LITERATURE	L0101 L0201	MWF2 TRF10	L D L D	Swallow Trott	GGR 300F	FIELD STUDIES	L0101	TBA		Staff
FRE 161Y	PRACTICAL FRENCH 1	L0101 L0201	MWF10 MWF12	L D L D	Legall Legall	GGR 303S	HYDROCLIMATOLOGY	L0101	TBA		TBA
						GGR 320Y	ADV GEOMORPHOLOGY	L0101	MW2		TBA
						GGR 340Y	CONTEMP VAL URB STD	L0101	TBA		TBA
						GGR 344Y	GEOG OF SOVIET UNION	L6001	TBA		Houston
						GGR 351Y	HIST GEOG NE & N AMER	L0101	TBA		McIlwraith
						GGR 352F	THEORY REC DESIGN	L0101	TR12		White
						GGR 352F	THEORY REC DESIGN	T0101 T0201	T1-3 R1-3		

COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR	COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR
GGR 354S	APPLICATS REG DESIGN	L0101 T0101 T0201	TR12 T1-3 R1-3		White	ITALIAN					
GGR 372Y	APPLIED CLIMATOLOGY	L0101 T0101	T2-4 TBA		Munro	ITA 100Y	ITA FOR BEGINNERS	L0101 T0101	MTWR2 TBA		Sinyor
GGR 373F	THEORY REMOTE SENSNG	L0101	M9-11		Hardy	ITA 110Y	BEG ITA DIAL SPKRS	L0101	MTWR2		Yu
GGR 374F	WATER QUALITY	L0101	TR11		TBA	ITA 200Y	CONTINUING ITALIAN	L0101	MTWR10		Sinyor
GGR 376S	GRNDWATER HYDROLOGY	L0101	TBA		TBA	ITA 210Y	ITA-DIALECT SPKERS	L0101	MTWR10		Picchione
GGR 379F	ADV FIFLD PRYS GEOG	L0101	TBA		Hardy	ITA 220F	CRITICAL ITALIAN LIT	L0101	MTW1		Picchione
GGR 381S	RESEARCH DESIGN	L0101	F9-11		White	ITA 221S	MODERN ITALIAN LIT	L0101	MTW1		Picchione
GGR 383S	APPLIED REMOTE SENSNG	L0101	M9-11		Hardy	ITA 230Y	ITA LIT THROUGH AGFS	L0101	MWR12		Yu
GGR 441S	ADV TOPICS URB STUDY	L0101	TBA		Andrews	ITA 270S	R M D MOD ITA NOVEL	L0101	TR9		Sinyor
GGR 491Y	B A/B SC TRFISIS	L0101	TBA		Staff	ITA 272F	PIRANDELLOSMOD THEAT	L0101	TR9		Yu
GREEK & LATIN LITERATURE IN TRANSLATION						ITA 275Y	ITALIAN RENAISSANCE	L0001	M7-9 PM		McCormick
GLL 190Y	GRE & ROM REL & MYTH	L0101 T0101	MW10 TBA		Rubincam	ITA 321Y	DANTE'S DIVINA COM	L0101	MWF10		Pugliese
GLL 200Y	GRK DRAMA IN TRANSLN	L0101	MW12		Beck	ITA 325S	LEOPARDI'S CANTI	L0101	TWR11		Picchione
GLL 204F	ROMAN SATIRE	L0101	MW10		Beck	ITA 340Y	CREATIVE ITALIAN I	L0101	M2 W2 F11		Pugliese
GREEK & ROMAN HISTORY						ITA 355Y	ADVANCED TRANSLATION	L0101	TWR1		Sinyor/Yu
GRH 100Y	GREEK & ROMAN CIV	L0101	MW9		Elliott	ITA 371F	INTRO MOD ITA POETRY	L0101	TWR11		Picchione
GRH 202Y	THE ROMAN EMPIRE	L0101 T0101	MW11 TBA		Elliott	ITA 385F	MAJOR NOVELS -10TH C	L0101	MWF12		Pugliese
GRH 210Y	ALEXANDER THE GREAT	L0101	MW2		Elliott	ITA 420Y	VEN EPIC POETRY	L0101 T0101	F2-4 TBA		McCormick
GRH 232S	ANCIENT ASTRONOMY	L0101	MW10		Beck	ITA 427S	BOCCACCIO	L0101	MWF12		Pugliese
GREEK						JOINT PSYCHOLOGY & BIOLOGY					
GRY 100Y	INTRODUCTORY GREEK	L0101	MTWR9		Beck	BAILLING PROCEDURE FOR ASTERISKED (*) JPB COURSE					
HISTORY						Ballot forms may be obtained after June 1, 1979 from the Academic Secretary, Room 3030, South Building. Completed forms must be returned by August 24, 1979. Lists of successful candidates for Y, F or H courses will be posted on the bulletin board outside Room 1059 on September 7, 1979. Lists for Spring term courses will be posted early in January 1980.					
BAILLING PROCEDURE FOR ASTERISKED (*) HISTORY COURSES.						JPB 255Y	SOCIOBIOLOGY	L0101	TR10 W2-5		Alloway/Gibo
Ballot forms are on page 42 of the History Handbook available from the Academic Secretary, Room 236, North Building. Completed ballot forms must be returned by August 17, 1979. Lists of successful candidates will be posted on the History bulletin board on August 24, 1979.						LATIN					
HIS 100Y	MOD EUROPE 1789-1978	L0101 TR0101	TR9 TBA		Lavigna	LAT 210F	POETRY OF CATULLUS	L0101	TBA		TBA
HIS 107Y	SOC & POL MOD WORLD	L0101 T0101	MW11 TBA		Raby	LAT 211S	POETRY OF HORACE	L0101	TBA		TBA
HIS 210S	SEXUAL REVOLUTION	L0101 T0101	MW12 TBA		Johnson	LINGUISTICS					
HIS 220Y	MEDIAEVAL SOCIETY	L0101 T0101	TR11 TBA		Goering	LIN 100Y	INTRO TO LINGUISTICS	L0101 T0101	T1-3 TBA		TBA
HIS 230Y	ENGLAND 1530-1999	L0101 T0101	TR10 TBA		Aster	MATHEMATICS					
HIS 242Y	MOD EUROPE 1450-1815	L0101 T0101	MW11 TBA		Stein	MAT 124S	FINITE MATHEMATICS	L0101 L0201 T0101	TR12 TBA TBA		
HIS 246Y	RUSSIA, 1800-PRESENT	L0101 T0101	TR2 TBA		Johnson	MAT 132Y	CALCULUS	L0101 L0201	TR10 TR12		Graham & Staff
HIS 252Y	HIS OF CAN:1500-PRES	L0101 T0101	MW10 TBA		Spigelman/Grayson	MAT 138Y	CALCULUS	L0101	TR10		Weiss
HIS 271Y	HIS USA 1754-PRESENT	L0101 T0101	MW9 TBA		Gleberston	MAT 204F	MOD SYMBOLIC LOGIC	L0101 L0201 T0101	TR1 MWF12 TBA		
HIS 280Y	INTRO LATIN AMER HIS	L0101	M1-3		Raby	MAT 204S	MOD SYMBOLIC LOGIC	L0101 L0201	MWY1 M7-9 PM		
HIS 300Y	ATLANTIC PROVINCES	L0101	MW2		Spigelman	MAT 214F	DIFFERENTIAL EQUAT	L0101 T0101	TR12 TBA		
HIS 314Y	FRENCH CANADA	L0101	T2-4		Spigelman	MAT 220F	LINEAR/MULTI ALGEBRA	L0101 T0101	TP9 TBA		Trott
HIS 319Y	CAN SOCIETY 20TH C	L0101	MW1		Grayson	MAT 234Y	ADV CALC FOR SOC SCI	L0201	R7-9 PM		Lebell
HIS 327Y	WARSAW 19 C EUROPE	L0101	M3-5		Dafoc	MAT 235Y	ADV CALC FOR SCIENT	L0101 T0101	TR12 TBA		
HIS 331S	AUGUSTINE	L0101	F3-5		Goering	MAT 270Y	CAL & LINEAR ALG II	L0101 T0101	TR10 TBA		Trott
HIS 333F	NATIVE PEOPLE OF CAN	L0001	T7-9 PM		Grayson	MAT 304F	INTERMEDIATE LOGIC	L0101	MWF12		
HIS 337Y	BRIT HIST 1815-1914	L0001	M7-9 PM		Dafoc	MAT 320S	PHIL OF LOGIC & MATH	L0101	TBA		Weiss
HIS 339Y	FROM EMPIRE-WELF STA	L0101	TR1		Aster	MAT 312S	MODAL LOGICS	L0101	TBA		
HIS 346Y	16TH CENTURY FRANCE	L0001	M7-9 PM		Stein	MAT 326S	ALGEBRA & GEOMETRY	L0101	TR1		Fantham
HIS 352P	HIST OF WAR TO 1815	L0001	R7-9 PM		Goering	MAT 334F	COMPLEX VARIABLES	L0101	TR1		Fantham
HIS 355Y	TOTALITARIANISM	L0101	T10-12		Lavigna	MAT 344F	COMBINATORIAL MATH	L0101	TBA		
HIS 356Y	RUSSIAN SOCIAL HIST	L0101	M2-5		Johnson	MAT 346F	APPLIED ALGEBRA	L0101 T0101	M12 F12 M3		
HIS 357Y	THE RENAISSANCE	L0101	TR1		Lavigna	MAT 349S	ABSTRACT ALGEBRA	L0101 T0101	TR9 TBA		Trott
HIS 359Y	HIST WOMEN IN CANADA	L0101	M3-5		Grayson	MAT 350F	INTRO TO TOPOLOGY	L0101	TR11		Grueb
HIS 364S	RELIGION IN CANADA	L0001	T7-9 PM		Spigelman	MAT 390H	INDEPENDENT WORK	L0101	TBA		
HIS 374Y	MEDIAEVAL TRADITION	L0101	TR2		Goering	MAT 402S	ADVANCED LOGIC	L0101	TBA		
HIS 378Y	ETHNICITY IN AM HIST	L0001	T7-9 PM		White	PHILOSOPHY					
HIS 383Y	EARLY US SOCIETY	L0101	TR9		White	PHL 100Y	LOGIC KNOWL REALITY	L0101	MWF11		Katz
HIS 389Y	SOC REV IN LAT AMER	L0101	T3-5		Raby	PHL 101Y	GOD, MIND & VALUS	L0101 L0201	MWF12 M7-9 PM		Cassin
HIS 390Y	FP REV & NAPOLEON	L0101	V1-3		Stein	PHL 102Y	PHILOSOPHIC CLASSICS	L0101	MWF1		Nagel
HIS 401Y	INDEPENDENT READING	L0101	TBA		Staff	PHL 200Y	BIRTH WESTERN PHIL	L0101	MWF10		Cassin
HIS 403Y	INDEPENDENT READING	L0101	TBA		Staff	PHL 210Y	17-18 CEN PHILOSOPHY	L0001	M7-9 PM		Nagel, Canfield
HIS 404F	ORAL HISTORY	L0101	T3-5		Johnson	PHL 220F	INTRO EXISTENTIALISM	L0101	M3-5		Cassin
HIS 431Y	20TH CENT DIPLOMACY	L0101	F10-12		Aster	PHL 230F	KNOWL BELIEF & TRUTH	L0101	MWF11		Italay
INTERDISCIPLINARY STUDIES						PHL 230S	KNOWL BELIEF & TRUTH	L0101 T0101	TR11 TBA		Canfield
INE 203E	EFFECTIVE WRITING	L0101	TBA			PHL 231E	EXISTENCE & REALITY	L0101 T0101	TR11 TBA		Canfield
INE 203S	EFFECTIVE WRITING	L0101	TBA			PHL 231S	EXISTENCE & REALITY	L0101 T0101	TR1 TBA		Hunter
INF 205F	WRITING FOR BUSINESS	L0101	M11 V1-3								
INE 205S	WRITING FOR BUSINESS	L0101	M11 V1-3								
INE 303Y	WRITING & TEACHING	L0101	M5-7								
INE 401Y	SENIOR ESSAY	L0101	TBA								
INE 402Y	SEL TOP CDN STUDIES	L0101	TBA								

COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR	COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR
PHL 235F	PHIL OF RELIGION	L0101 TR101	TBA		Canfield	PHY 459S	QUAN OPT & LASER PHY	L0101 TBA			Van Driel
PHL 240Y	PHIL OF HUMAN NATURE	L0101 T2-4 R2			Huggett	PHY 470Y	INTRO RESFARCH	L0101 TBA			Staff
PHL 241S	PHIL OF THE EMOTIONS	L0101 TRF10			Huggett	PHY 471Y	SUPERVISED READINGS	L0101 TBA			Staff
PHL 243S	PHIL HUMAN SEXUALITY	L0101 MWF1			Sumner	POLITICAL SCIENCE					
PHL 244F	HUMAN NATURE & ABNORM	L0101 MW2 F2			Brett	POL 102Y	INTRO CANADIAN POL	L0101 TR2 L0001 T7-9 PM T0101 TBA			Chandler Terry
PHL 245F	MOD SYMBOLIC LOGIC	L0101 TR1 T0101 TBA				POL 101Y	INTRO POLIT PHIL	L0101 TR10			Masciulli
PHL 245S	MOD SYMBOLIC LOGIC	L0101 MW2			Katz	POL 200Y	POLITICAL THEORY	L0101 M4-8			Cook
PHL 246S	PROBAB & INDUC LOGIC	L0101 MWF11			Inlay	POL 203Y	POLITICS & GOVT US	L0101 M10-12			Solomon
PHL 250F	PHIL OF LANGUAGE	L0101 TR1 T0101 TBA			Hunter	POL 204Y	POLITICS & GOV USSR	L0101 R12-2			Sanderson
PHL 255S	PHIL OF SCIENCE	L0101 MWF10			Nagel	POL 208Y	INTRO INTERNAT RELAT	L0101 W1-3			Barros
PHL 269S	POL THEORIES:MODERN	L0001 T7-9 PM			Hunter	POL 212Y	POL MASS MOVEMENTS	L0101 T1-3			Barros
PHL 272F	PHIL OF EDUCATION	L0001 M7-9 PM			Huggett	POL 221F	POLIT PARTICIPATION	L0101 M12-2			Terry
PHL 274S	CONTEMP SOCIAL ISS	L0101 MW2			Inlay	POL 222S	ELITES & POL LEADERS	L0101 M12-2			Kayside
PHL 275F	INTRO TO ETHICS	L0101 MWF1			Sumner	POL 300Y	* URBAN POLITICS	L0101 R10-12			Patrick
PHL 281F	MORAL MEDICINE & LAW	L0101 MWF11			Sumner	POL 314Y	PUB OPINION & VOTING	L0101 W4-6			Terry
PHL 282S	ETHICS,HLTH SCI & LAW	L0101 MWF11			Sumner	POL 316Y	CANADIAN FEDERALISM	L0101 T10-12			Chandler
PHL 285S	AESTHETICS	L0101 MWF1			Henwood	POL 320Y	MOD POLITIC THOUGHT	L0101 R3-5			Masciulli
PHL 288F	LITERATURE & PHIL	L0101 MWF1			Inlay	POL 322Y	INTRO PUBLIC ADMIN	L0101 TW17			Patrick
PHL 312F	KANT	L0101 MWF11			Nagel	POL 323Y	TOPICS IN CDN POLIT	L0101 M2-4			Peers
PHL 313S	ISSUES IN MODERN PHL	L0101 M3-5			Huggett	POL 329Y	MARXISM	L0101 W10-12			Sanderson
PHL 317S	ISSUES IN 19TH C PHL	L0101 MWF11			Nagel	POL 331S	ONT GOV'T & POLITICS	L0101 TW3			Patrick
PHL 320S	PHENOMENOLOGY	L0101 M7-5			Cassin	POL 440Y	UNDERGRADUATE THESIS	L0101 TBA			TBA
PHL 326S	WITTGENSTEIN	L0101 T3-5			Hunter	POL 441Y	READING COURSE	L0101			TBA
PHL 327F	CONTEMP ANALYTIC PHL	L0101 W3-5			Inlay	PSYCHOLOGY					
PHL 322F	ISSUES IN METAPHYSIC	L0101 M2-5			Huggett	BALLOTING PROCEDURE FOR ASTERISKED (*) PSYCHOLOGY COURSES.					
PHL 333F	ISS IN FIISTEMOLOGY	L0101 R3-5			Hunter	Ballot forms may be obtained after June 1, 1979 from the Academic Secretary, Room 3030, South Building. Completed forms must be returned by August 24, 1979. Lists of successful candidates for Y, F or H courses will be posted on the bulletin board outside Room 1099 on September 7, 1979. Lists for Spring term courses will be posted early in January 1980.					
PHL 340F	PHILOSOPHY OF MIND	L0101 T3-5			Hunter	PSY 100Y	INTRO PSYCHOLOGY	L0101 MW11 F4 MW1 F4 T0101 TP10 F4 L0001 T7-9 PM			L D Spigel L D Spigel L D Spigel D Craik/Alloway
PHL 345F	INTERMEDIATE LOGIC	L0101 MWF2			Katz	PSY 201F	RES DESIGN & ANAL 1	L0101 MW0			
PHL 349S	SET THEORY	L0101 TR1 T0101 TBA				PSY 202S	RES DESIGN & ANAL II	L0001 TR7-9 PM			Schneider
PHL 362S	PHIL OF RISTORY	L0101 M7-5			Henwood	PSY 203F	EXP DESIGN & THEORY	L0101 MW12			TBA
PHL 370F	PHILOSOPHY OF LAW	L0101 MWF12			Brett	PSY 210Y	INTRO TO DEVELOPMENT	L0101 TRF11			Cortier
PHL 375S	CONTEMP ETHICAL THEO	L0101 W3-5			Sumner	PSY 220Y	INTRO TO SOCIAL PSY	L0001 W7-9 PM			TBA
PHL 390F	SPECIAL TUTORIAL	L0101 TBA				PSY 230F	INTRO TO PERSONALITY	L0101 MWF11			Polivy
PHL 396S	SPECIAL TUTORIAL	L0101 TBA				PSY 251F	COMPARATIVE PSYCH	L0101 TR1			Krames
PHL 495F	INDIVIDUAL STUDIES	L0101 TBA				PSY 260F	INTRO TO LEARNING	L0101 MW1			Alloway
PHL 495S	INDIVIDUAL STUDIES	L0101 TBA				PSY 270Y	COGNITIVE PSYCHOLOGY	L0101 TRF12			Logan
PHYSICS						PSY 280F	SENSORY PERCEPT PROC	L0101 MWF9			Schneider
PHY 110Y	THE WORLD OF PHYSICS	L0101 WF10 F0101 M2-5 F0102 M2-5 F0102 M2-5 F0201 T2-5 F0202 T2-5 F0203 T2-5 F0301 W2-5 F0302 W2-5 F0401 F2-5 F0402 F2-5 T0101 M10 T0201 M12 T0301 M2 T0401 T11 T0501 T3 T0601 W1 T0701 F1 T0801 F2			L L						

COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR	COURSE CODE	TITLE	SECTION	TIME	CODE	INSTRUCTOR
RELIGIOUS STUDIES						SPANISH					
REL 10PT	WORLD RELIGIONS:INTR	L00P1	R7-9 PM		Nigossian	SPA 100Y	SPA FOR BEGINNERS	L0101	MWF10		Cohen
REL 10ST	CONTEMP REL ETHICS	L0101	TR2		Schmidt			L0201	MWF12		Cohen
REL 202Y	THEOLOGY IN LIT	L0001	T7-9 PM		Lavelle			L0301	MWF2		Cohen
REL 202F	REL & IDENTITY CAN	L0101	TR11		Schmidt			L0801	T7-9 PM		Neglia
REL 212S	HOPE AND HUMAN COND	L0101	TR11		Schmidt			P0101	TBA		
REL 212Y	THEMES:BIBLICAL LIT	L0101	MW11		Lavelle	SPA 22PY	COMP & OPAL PRACT II	L0101	MWF12		Cohen
REL 265Y	INDIAN RELIGION	L0101	TR3		O'Connell			L0001	M7-9 PM		Neglia
REL 266Y	THREE DESERT RFLS	L0101	TR10		Nigossian	SPA 250Y	SPANISH CULTURE	L0001	M7-9 PM		Hegy1
REL 267Y	WORLD REL:COMPARISON	L0101	M1-3		Nigossian	SPA 250Y	MODERN HISPANIC LIT	L0101	MW1		Hegy1
		T0101	TBA								
REL 362S	CHARDIN: EVOLUTION	L0101	T2-4		Elmer	SPA 280Y	LATIN AMERIC CULTURE	L0101	M2-4		Neglia
REL 263F	EVIL&SIN/CHRISTIANTY	L0001	M7-9		Elmer	SPA 320Y	COMP & ORAL PRAC III	L0101	T2		Neglia
		L0001	T2-4						R2-4		
REL 370Y	COMM AND REL CONSC	L0001	M7-9 PM		Schmidt	SPA 350Y	SPANISH GOLDEN AGE	L0101	MW11		Hegy1
REL 400Y	INDIVIDUAL STUDIES	L0101	TBA			SPA 382S	MOD SPA AMER NOVEL	L0101	TR10		Neglia
REL 491F	INDIVIDUAL STUDIES	L0101	TBA			SPA 420Y	ADV COMP & ORAL PRAC	L0101	TBA		Hegy1/Cohen
REL 491H	INDIVIDUAL STUDIES	L0101	TBA			SPA 436S	CONTEMP SPA POETRY	L0101	TBA		Cohen
REL 491S	INDIVIDUAL STUDIES	L0101	TBA								
SLAVIC LANGUAGES & LITERATURE						STATISTICS					
SLA 10PT	FIRST YEAR RUSSIAN	L0101	MW11-1			STA 202F	STATISTICS	L0101	MW9		
			T11					L0201	MW12		
SLA 110Y	INTRO SLA CULT & LIT	L0101	MW11					L0301	M7-9 PM		
SLA 210Y	19 CENT RUSSIAN LIT	L0101	R2-4					L0401	TBA		
SLA 211Y	RUSS LIT IN TRANSLAT	L0001	R7-9 PM			STA 212S	APPLICATIONS STATIST	L0101	MW12		
SLA 220Y	INTERMEDIATE RUSSIAN	L0101	M10-12					L0001	M7-9 PM		
			F10					T0101	TBA		
SLA 310Y	20 CENT RUSSIAN LIT	L0101	M3-5			STA 242Y	PROBABILITY & STATS	L0101	MW9		
SLA 314F	DOSTOEVSKY	L0101	M3-5					T0101	TBA		
SLA 317S	TOLSTOY	L0101	M3-5			STA 312F	MATH STA INFERENCE	L0101	MW1		
SLA 320Y	ADVANCED RUSSIAN	L0101	M12-2					T0101	F1		
			F12			STA 412S	ESTIMATION & TESTING	L0101	MW1		
								T0101	F1		
SLA 363F	SOLZHENITSYN	L0101	T12-2			STA 432S	ADVANCED STATISTICS	L0101	TBA		
SLA 367S	CHEKHOV	L0101	T12-2					T0101	TBA		
SOCIOLOGY						SURVEY SCIENCE					
SOC 101Y	INTRO TO SOCIOLOGY	L0101	MW10	L	TBA	BALLOTING PROCEDURE FOR ASTERISKED (*) SURVEY SCIENCE COURSES.					
		L0201	MW11	L	TBA	Ballot forms may be obtained after June 1, 1979 from the Academic					
		L0301	MW12	L	Blute	Secretary, Room 3106, South Building. If requesting forms by mail,					
		L0401	TR9	L	TRA	please indicate clearly the specific course or courses for which					
		L0501	TR10	L	Green	you wish to ballot.					
		L0601	T7-9 PM	L	TBA	Ballot forms should be completed and returned to Room 3106 as soon					
		T0101	TBA			as possible, but no later than September 7, 1979. Lists of successful					
		T0201	TBA			candidates for F, H or Y courses, will be posted on the bulletin board					
		T0301	TBA			in Room 1141 on September 10, 1979. Lists for Spring term courses					
		T0401	TBA			will be posted on the bulletin board in Room 1141 on December 3, 1979.					
		T0501	TBA								
SOC 152Y	COMM THEORY&RESEARCH	L0101	MW2		Stein	SUR 202Y	INTRO TO SURVEYING	L0101	TR11	L*	Steeves
SOC 200Y	INTRO SOC RESEARCH	L0101	T4-6		Kalbach			P0101	M1-4	L*	
SOC 202Y	INTRP-PERSONAL RELAT	L0101	M2-4		Rizneck			P0201	T1-4	L*	
		T0101	TBA					P0301	M1-4	L*	
								P0401	M1-4	L*	
SOC 205Y	URBAN SOCIOLOGY	L0101	TR10		Gillis	SUR 220Y	PHOTOGRAMMETRY	L0101	TR9	L	Gracie
SOC 212Y	SOC OF DEVIANCE	L0101	TR1		Nagan			P0101	M2-5	L	
		L0001	T7-9:30 PM		TBA			P0201	T2-5	L	
		T0101	TBA					P0401	M2-5	L	
								P0501	R2-5	L	
								P0601	P9-12	L	
SOC 214Y	SOC OF THE FAMILY	L0101	TR11		Campbell	SUR 230Y	LAND SURVEYING	L0101	M81	L	TBA
		T0101	TBA					P0101	M2-5	L	
SOC 220Y	CANADIAN SOCIETY	L0001	R7-9:30 PM		Campbell			P0201	M1-4	L	
		T0001	TBA					P0301	R2-5	L	
SOC 264Y	COMMUNICATN & ETHICS	L0101	M5-7		Stein	SUR 240S	MEASUR THEO, OBS ADJ	L0101	T10-12		Gracie
SOC 301Y	SOCIAL INTERACTIVITY	L0101	R3-5		Green			P0101	R10-12		
		T0101	TBA			SUR 250F	SURVEY LAW	L0101	T2-5		Landben
SOC 304Y	CHANGES&CONFLICT SOC	L0101	TR2		Friedman	SUR 260S	LAND PLANNING	L0101	T2-5	*	Landben/Clipsman
		T0101	TBA			SUR 303Y	CEODESY	L0101	MW11		TBA
SOC 311Y	SOC OF EDUCATION	L0001	M7-9:30 PM		Silva			P0101	M3-5		
SOC 312Y	POPULATION & SOCIETY	L0101	MW2		Kalbach	SUR 305E	GEODETIC ASTRONOMY	L0001	M7-10 PM		TBA
		T0101	TBA			SUR 320S	DATA MANAGMT & REPRE	L0101	F9-12		Turner
SOC 313Y	SOCIOLOGICAL THEORY	L0101	MW10		Blute	SUR 331F	SPECIAL TOPICS	L0101	TBA	*	Staff
		L0001	R7-9 PM			SUR 331H	SPECIAL TOPICS	L0101	TBA	*	Staff
SOC 316Y	GROUP STRUCTURE	L0101	M2-5		Kervin	SUR 331S	SPECIAL TOPICS	L0101	TBA	*	Staff
SOC 324Y	POLITICS AND SOCIETY	L0101	M5-7		Silva	SUR 332F	SPECIAL TOPICS	L0101	TBA	*	Staff
SOC 329S	COLLECTIVE BEHAVIOUR	L0101	MW1		Blute	SUR 332H	SPECIAL TOPICS	L0101	TBA	*	Staff
		T0101	TBA			SUR 332S	SPECIAL TOPICS	L0101	TBA	*	Staff
SOC 332Y	SMALL GROUPE CMM	L0101	T2-4		Stein	SUR 332F	SPECIAL TOPICS	L0101	TBA	*	Staff
SOC 334Y	CMM AND CHILDREN	L0101	M5-7	L	Stein	SUR 333H	SPECIAL TOPICS	L0101	TBA	*	Staff
SOC 340Y	METHODS IN UREAN	L0101	TBA		Gillis	SUR 333S	SPECIAL TOPICS	L0101	TBA	*	Staff
SOC 346Y	SOCIETY ORG & INDIV	L0101	TR11		Friedman	SUR 340H	LAND PLAN-REGIONAL	L0001	M7-10 PM (Alt)		Landben
		T0101	TBA			SUR 350F	LAND LAW & REGISTRN	L0101	T1		Landben
SOC 390Y	INDIVIDUAL STUDIES	L0101	TBA		TBA				W1-3		
SOC 391F	INDIVIDUAL STUDIES	L0101	TBA		TBA	SUR 360S	BOUNDARY LAW	L0101	T1		Landben
SOC 392S	INDIVIDUAL STUDIES	L0101	TBA		TBA				W1-3		
SOC 411H	RESEARCH METHODS II	L0101	TBA		Campbell	SUR 410F	SURVEY CONTROL	L0101	T10-12		Steeves/Gracie
		P0101	TBA					P0101	F10-12		
SOC 420F	INTERPER RELATIONS I	L0001	T6-9 PM		Kervin	SUR 420Y	SURVEY DSGN & SYNTH	L0101	M11-1		Staff
SOC 422S	UREAN SOCIETY POP II	L0101	TBA		Gillis			P0101	W10-12		
SOC 490Y	INDEPENDENT RESEARCH	L0101	TBA		TBA	SUR 430H	PROFESSIONAL AFFAIRS	L0001	M7-10 PM(Alt)		Landben
SOC 491F	INDEPENDENT RESEARCH	L0101	TBA		TBA	SUR 440H	LAND PLAN-SITE	L0001	T7-10 PM(Alt)		TBA
SOC 492S	INDEPENDENT RESEARCH	L0101	TBA		TBA	SUR 450H	ADVANCED SURVEY LAW	L0001	T7-10 PM(Alt)		Landben

